

Rocky Flats Environmental Technology Site

CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

Group 6 CLOSURE PROJECT

(Buildings 280, S281, 281, 282, 284 Tank Pad, and T900D)

REVISION 0

May 4, 2001

Prepared by:	Andre Gonzalez, Industrial Hygiene	Date: 5/4/0/
Prepared by:	Greg Sollner, Environmental Compliance	_Date: <u>5/4/0</u>]
Prepared by:	Shaun Knapp, Environmental Compliance	Date: <u>5/4/0/</u>
Reviewed by: _	Steve Luker, Quality Assurance	_Date: _ <i>5/8/6</i> 1
Reviewed by: _	Duane Parsons, Characterization Coordinator	_Date: 5/8/01
Approved by:_	Vern Guthrie, KH Closure Project Manager	Date: S 901

DOES NOT CONTAIN
OFFICIAL USE ONLY INFORMATION

Page 1 of 4

ADMINISTRACED

IA-A-000862

CHEMICAL CHARACTERIZATION PACKAGE

BUILDING(s): Group 6 Cluster (280, S281, 281, 282, and 284 Tank Pad)

* This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.

PDSP Data Quality Objectives were used to develop this characterization package.

Instructions:

- 1. Verify characterization activities are on the Plan-of-the-Day (POD).
- 2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
- Verify personnel have appropriate training for the applicable tasks they will be performing.
- 4. Comply with RWP requirements, if applicable.
- 5. Comply with JHA and facility PPE requirements, as applicable.
- 6. Inform the Facility Manager, or designee prior to starting characterization activities.
- 7. Follow applicable characterization and sampling procedures.
- 8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
- 9. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
- 10. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
280 Area - All	8	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as floor tile & mastic, drywall & ceiling tile, and base cove will be sampled for asbestos.
T900D	7	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as floor tile & mastic, drywall & ceiling tile, and base cove will be sampled for asbestos.
Total Samples:	15	The exact sample numbers and locations cannot be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.



BERYLLIUM		
Sample Location	Number of Samples (smears)	Sample location and justification/rational
280 Area - All	0	Based on the 280 Area Historical Site Assessment Report and Interview Checklists, there is adequate historical and process knowledge to conclude that beryllium was not used or stored in these buildings. Therefore, sample is not required.
T900D	5 – biased	There is no documented supporting data or process history that proves beryllium was not used or stored in this building. Therefore, five biased samples will be obtained.
Total Samples:	5	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

LEAD		
Sample Location	Number of Samples	Sample location and justification/rational
Group 6 Cluster, all locations	0	Lead sampling is not required in the Group 6 Cluster. The only potential for a lead hazard would be in the paint. All paint will remain a part of the infrastructure during demolition and/or disposal, and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
Total Samples:	0	

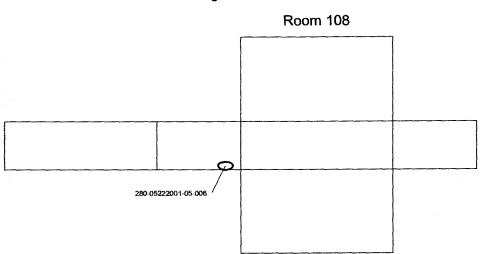
Sample Location	Number of	Sample location and justification/rational
	Samples	D. I. J. 200 (TV)
280 Area - all) 0	Based on the 280 Area Historical Site Assessment Report, Interview
		Checklists, and facility walkdowns, no hazardous activities resulting in a
		release of RCRA or CERCLA constituents occurred in these buildings,
		therefore sampling for RCRA/CERCLA constituents is not required.
		Note: These buildings contain components that may need to be managed as
		Regulated Waste during D&D activities including mercury thermostats,
	1	fluorescent light bulbs, circuit boards, and lead acid batteries. Care will need
		to be taken to ensure these wastes are managed properly.
280	0	Visual observation revealed two areas with small stains. Both stained areas are
		clearly in locations where vehicles have been parked just inside the vehicle
		access doors. Based upon the stain locations and the history of the facility, the
		stains are in all likelihood motor oil, and do not necessitate any samples.
T900D	0	According to historical documents, T900D was classified as a general use
		office facility and did not contain any hazardous chemicals greater than RQ
	!	quantities. Chemicals that may have been present for sample preservation
	ŀ	would have likely been various types of acids which are commonly used for
		this purpose, and which would not present a historical RCRA hazard if spilled.
		Therefore, no sampling is necessary. All other indicated materials in the
		Therefore, no sampling is necessary. An outer indicated materials in the
		historical documents would have been office or janitorial type materials.
Total Samples:	0	

PCBs*		
Sample Location	Number of Samples	Sample location and justification/rational
280 Area - all locations	0	The 280 Area buildings were constructed in 1994 through 1997. 280 Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns of this area indicate PCB contamination in the structural debris is not probable. Therefore, no sampling is required. These buildings will be disposed of as PCB Bulk Product Waste or sold for reuse.
T900D	0	T900D Historical Site Assessment Report, Interview Checklists, and facility walkdowns of this building indicate no potential for PCB contamination; therefore no sampling is required. This building will be disposed of as PCB Bulk Product Waste or sold for re-use.
Total Samples:	0	Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities, such as light ballasts. Care will need to be taken to ensure these wastes are managed properly.

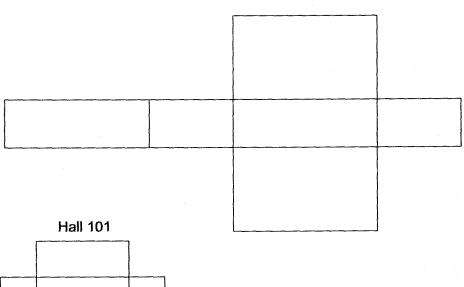
^{*} PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

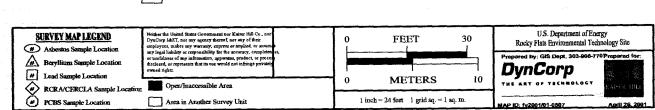
Survey Area: A Survey Unit: GR6-A-001 C Classification: N/A Building: Group 6 (280 Area)
Survey Unit Description: Interiors of B280, B281, S281, B282,
& associated sidewalk & pads

Bldg 280 Interior







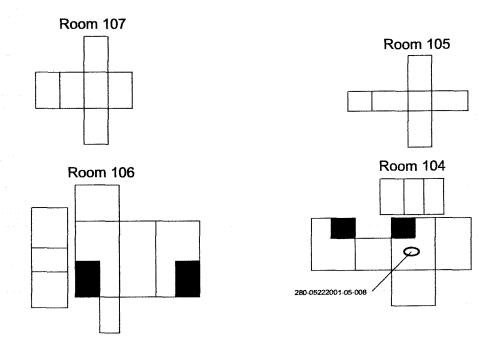


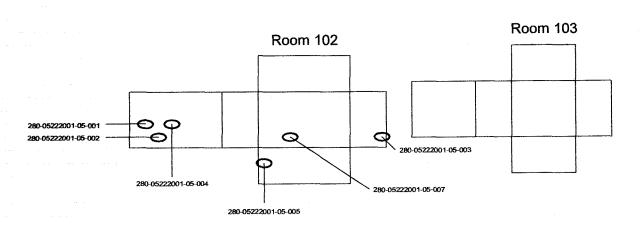
PAGE 1 OF A

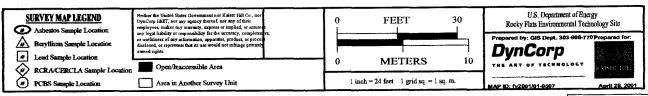
1/30/01

Survey Area: A Survey Unit: GR6-A-001 C Classification: N/A Building: Group 6 (280 Area)
Survey Unit Description: Interiors of B280, B281, S281, B282,
& associated sidewalk & pads

Building 280



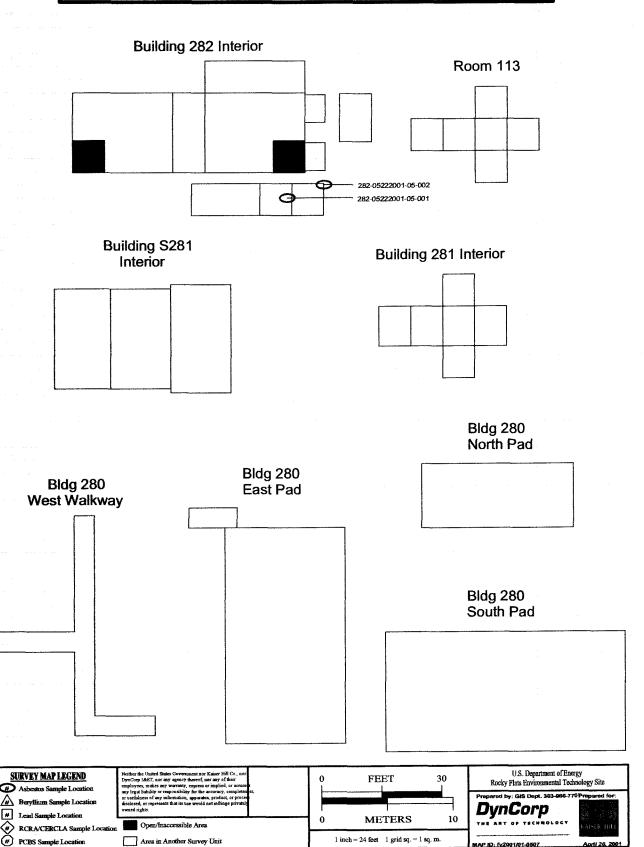




PAGE 2 OF # 3

1/30/01

Survey Area: A Survey Unit: Six Survey Unit: Survey Unit Description: Interiors of B280, B281, S281, B282, & associated sidewalk & pads Classification: N/A



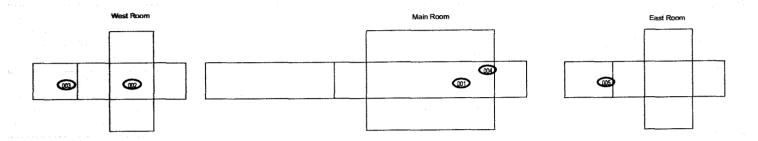
Survey Unit: GR6-C-003 Survey Area: C

Classification: N/A

Survey Area: C Survey Unit. Group 6 (T900D)
Survey Unit Description: Interior & Exterior of T900D
Total Area: 415.2 sd. m. Total Fig.

Total Floor Area: 45.7 sq. m.

Building T900D Interior 000 T900D-05222001-05-001 Thru 005



Building T900D Exterior

East Wall	North Wall	West Wall	South Wall
		Roof	
		ROOT	

SURVEY MAP LEGEND Asbestos Sample Location	Meither the United States Government nor Kaiser Hift Co., nor DynCorp IdeSt, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or unsuum	0 FEET 30	U.S. Department of Energy Rocky Flats Environmental Technology Site
Berytium Sample Location Lead Sample Location	any legal liability or responsibility for the accuracy, completen as, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infinge privately owned rights.		Prepared by: GIS Dept. 303-966-770 Prepared for: DynCorp
RCRA/CERCLA Sample Location	Open/Inaccessible Area	0 METERS 10	THE ART OF TECHBOLOGY KAISE HILL
PCBS Sample Location	Area in Another Survey Unit	1 inch = 24 feet 1 grid sq. = 1 sq. m.	MAP ID: (v2001/01-0523 April 30, 2001

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

INLAP Accredited Laboratory # 101896 TDH Literard Laboratory # 20-0135

TABLE 1. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: Client: Client Project Number / P.O.: Client Project Description: Date Samples Received: Analysis Type: Turnaround:	KES 774 Kaiser-F DIDO882 T901D F May 24, PLM Sa	KAISET-HÍR DIDO882, EFD9032D T994D Brik Asbestos May 24, 2601 PLM Short Report, Brilk 3-5 Day	7.00 rtos 7.00 rtos 7. Bal	·			Analpan PFK	Mars OA	
Chent Sample Number	9 <u>2</u>	(D Number	7 <u>4 > 5 x</u>	Physical Description	Seb Fart (%)	Mineral Vista		Pistons Components (%)	
Y900D-05222001-05001	EM	EM 544398	∢	Whik linolerm	6	QN.		100	
T900D-05222001-05902	ES.	EM 544399	Ą	White linotenm	100	ON.	<u> </u>	8	
T980D- 9 5212081-05003	ES	EM 544400	A B	White granular paint White drywall	~ 2g	ON A	0 35	200 85	
T910D-05222001-05004	EX	544401	4 8	White granulat paint White drywall	2 %	ON .	15	10 . 88	
T900D-05222001-45005	ЕМ	EM 544402	BB	White granular paint White drywal!	2 8	AN TAN	0 15	100 85	

ND=None Detected TR=Trace, < 1% Vical Estimate

Tem-Act = Tremotte-Actinoide

1007/67/90

835525547

£0:8T



FAX COVER SHEET PRELIMINARY DATA REPORTS

RIN NUM	BER: 0110882,883
FROM:	SHELLY JOHNSEN
PHONE:	(303) 966-6401
FAX:	(303) 966-8345
то:	- antre Conzales DAVE
FAX:	6678
PHONE:	, particular til No
NUMBER	OF PAGES, INCLUDING COVER SHEET:
Please con	tact if the fax is not received in its entiret
	(phone number)

If the accompanying data is stamped preliminary it is because the final data package has not been received and validated or verified. Until the data is validated or verified it must be considered preliminary. Final data is usually not received until 30 days after the laboratory has received the sample. Verification or validation is completed a short time following receipt of the final data package. You will be sent a copy of the verification or validation report, which you should review. If qualifiers have been attached to individual results they may affect the way that you use the data. If you have any question please contact your Analytical Services Project Lead, do not contact the laboratory directly.

RFP F 3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

0100822 74878001

Page 1 of Number Lab Time/Date Time/Date Time/Date Time/Date ☐ Unbroken Date: 5/2/ REMARKS Comments: / Jrg.f.) LQ Received by Received by Received by Received by Green - Sample Custodian Blue - Originator Broken Condition of Seal: Seal# (Release #) (ONTHE 1 1101 Back Signature: Personal Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by Bldg/Ext: W B Industrial Hygiene Sample MEDIA Other Asbestos Samples Other Analysis Request Rush SAMPLE Rush TIME/ Yellow - Lab Copy Time/Date 24 Rush Time/Date Fime/Date Time/Date VOLUME liters Standard Standard Service Service 7 H+5 Sonrale Title. White - Return to Originator ANALYZE-FOR Received by Received by Received by Received/by P.O.#/Release: \$\insp\120 4114114 bethy Report and Billing Instruction Name of Originator: Addice 200:20 Report To: 79000-05133001-02-001 HOW SO TRAFTESO Verbal To: C00 - 20 - 100 1624 - 1100 #7 1900 1-05222001-05-00 Fax To: Bill To: SAMPLE NUMBER BIdg/Y/M/D/P#/S# Relinquished by Relinquished by Relinquished by Relinquished by Lab: 1922 11-0522 13001 Kaiser-Hill 🔀 DynCorp **RMRS** 1,900 SSOC WSI

TECOD Tracker with sheet metal siding filesches but with sheet metal siding frame and wood spending on interior. From is viright (public!) shooteness with not backing or shadhing Sub-flow is of construction grade glywood. Ceiling is drywelf, no joint compound with a whole texture coating. But track is word without adhering, my mark.

Roof was not accessible stoday.

FOOTHILLS ENVIRONMENTAL, INC.

Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300

Golden, CO 80401 Phone: (303) 275-3470 Fax: (720) 489-2832

ASBESTOS BULK SAMPLING FORM

LOCATION: 7900

CLIENT NAME:

VUMBER:	Sample Location	Main Room	West Room	West Room	Main Room	Sant Room							
APLED BY: Decre Engineer: PROJECT NUMBER:	Sample Description	Wich Indows 10 TAN OPECS, F G. K. Same		19000-05222001-05-003 DRYWALL White drywall ceiling w/ white aking texture	" , " , " , " , "				9 :				
SAMPLE DATE: OS ZZ ZOOL SAMPLED BY: DAW IN EACES	Sample Number Sample Type	79000-0502208-05-600 Live	1900-05222001-05-002 Line	79000-05222601-05-003 DRYWALL	1906D-05222001-05-004 Dunall	T9000-05222001-05-035 27-048	(c ₁₉						

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory # 101896 TDH Liensed Laboratory # 30-0136

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	KKS	KES 77474-1							
Client	Kaise	Kaiser-Hill	į						
Chert Project Number / P.O.:	0110	91D0883, EKD90320						•	1
Client Project Description:	B780	B280 & B282 Bulk Asbesins	KAK)est 0.8					
Date Samples Received:	May	May 24, 2001	1	;					
Analysis Type:	PLM	PLM Short Report, Balk	r, M	뇤				W.P.B. Tark	
Tumaround:	3-5 Day	-B4					10		- 11
Chent	Lab		1		1 G.4			Non	
Sanaple	2	ID Number	∢ >	Physical	Part			Fibers	•
Number			in w	Description	3	Mineral	Vfstal Estimate (%)	Components (%)	1
280-05222601-05-001	E	544388	4	Tan resinous material w/silver foil	603		Z	3	
280-05222001-05-002	M	554389	4	White & ten ceiling ale	901		2	39	
280-05222001-05-003	EM	544390	ΑĦ	White mud wheige paint Tan & pink drywall	4 g		88	TR C	
180-05222001-05-004	E E	544391	₹	White & tau ceiling üle	8		2	65	
280-05722001-05-005	E	S44392	∀ ₩₽	White plaster Tan & white fibrous materia: Tan wastic Gray cove dase	2 co co co		2222	# 8 0 e	
28 0-0 5722001-05-006	<u> </u>	544393	< #	White mud w/gray paint Tan & pink drywall	5 95		ZZ GZ	E 6	
280-05121001-95-097	M	EM 544394	K A	Yellow mastic Beige & multi-colored file	بر ₂ و		N N	Ħ°.	

28

6

Fibrous

He Date OA

3 Components

35

800

95 gg

ND = None Directed TR = Trace, < 154 Visual Estimate

Trem-Act = Tremelite-Actividite

07:71 \$2\53\588T 8355251241

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Labouriery # 101696

TDH Litensed Laboratory# 30-9136

LABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

B280 & B282 Dalk Asbestos PLM Short Report, Bulk 01D4883, EFD90320 May 24, 2001 RES 77474-1 Kaiser-Hill 3-5 Day Client Project Number / P.O.: Client Project Description: Date Samples Received: RES Job Number: Analysis Type: Turnaround:

Analyst: KSW

Data QA

	Carrie a c					Control of the Contro		N. Carr
Clieni	Lab	1		. Ø.			Asbestos	Fibrous
Sample	ID NEEDS	< >	Physical	N TE	B#7		Fibers	Components
Nijia Des		i ki z	Description	8	Mineral Erff	Vestal Erfanate (%)	Visual Components (%) (%)	(%)
180-05122081-05-808	EM 54395	4 M	Yellow masti: Beige & multi-colored tile	4 96		22	E C	100
181-452220\$1-45-001	EM 544396	∢ ≋ ∪	White tape White mud wigray paint Tan & nink drowall	70 Fr 88		222	25 kT 05	2 K
282-05222001-\$5-002	EM 544397	A M C	White fibrous material Tan mastic	- v &		222	<u> </u>)01 100 100

ND=New Deleted TR=Trees,<!% Vireal Estimate

Them-Act = Tremoks-Actendite

T002/62/90

P, 05 ₽AGE



ASBESTOS-TEM, PCM, PLM, SEM
METALS - AA, FLAME/FURNACE
AIRBORNE PARTICLES
SPECIAL PARTICLE ANALYSIS

RESERVOIRS ENVIRONMENTAL

SERVICES, INC.

Fax Transmittal

			RES Job:	77475
	To:	Chuck	HOE/201	
	Company:	_ DAISE	Hice	
	Fax Number:	303 966 334	5, 35 78, 7	99/
	From.	DALAN	Colbert	
	Dates	5-27	-01	
	Number of Page	es:(excl	ading cover sheet)	
Marcson				
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		144		
	11/07			
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	-	- and an interpretation of the state of the		

Please call (303) 830-1986 or 866 RESIENV if transmission is incomplete.



MVALAD LABAM MIROG

ASBESTOS-TEM, PCM, PLM, SEM METALS - AA, FLAME/FURNACE AIRBORNE PARTICLES SPECIAL PARTICLE ANALYSIS

RESERVOIRS ENVIRONMENTAL

SERVICES, INC.

	Fax Transmittal
	RES Job: 77474
	TO: CHUCK HOE/20/
	Company: DAISER - HILL
	Fax Number: 302-961,9345, 3578, 7991
	From: DAMMI Colbert
	Date: 5-29-01
	Number of Pages' (excluding cover sheet)
Messago	
	1 H II 1

FOOTHILLS ENVIRONMENTAL, INC. Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300 Golden, CO 80401 Phone: (303) 275-3470 Fax: (720) 489-2832

ASBESTOS BULK SAMPLING FORM

CLIENT NAME:

280 LOCATION:

SAMPLE DATE:	SAN	SAMPLED BY: PR	PROJECT NUMBER:
Sample Number	Sample Type	scription	Sample Location
180-05223001-05-001 Misc.	m:śc.	duct to w/ white consourd willer reflective type Room 102	the type Room 102
280-05422001-05-002 6.7.	e.7.	2x4 white speckle	Room 102
280-0512 2001-05-003	drywill	drywells tape joint compand	Room 102
280-05222001-05-004	CT.	280-05222001-05-004 CT. 2x4 white specked	Room 102
280-05222001-05-005	baseboard	gray base board in brown passfer	Room 102
180-05212001-05-006	dayvill	280-05222001-05-006 drywill drywill + type joint congound	Roon 108
280-05222001-05-007 F-T.	F.T.	12×12 white w/ tregueise specks on / yellowpastre	spi Room 102
280-05222001-05-008 F.T.			. Roon 104
288-05222001-05-001		deywallo t. j. c.	Mair Room
282.05222001-05-002 base bosed agang base brand	base based	aging Sase Sound	

RFP F 3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

1008Z

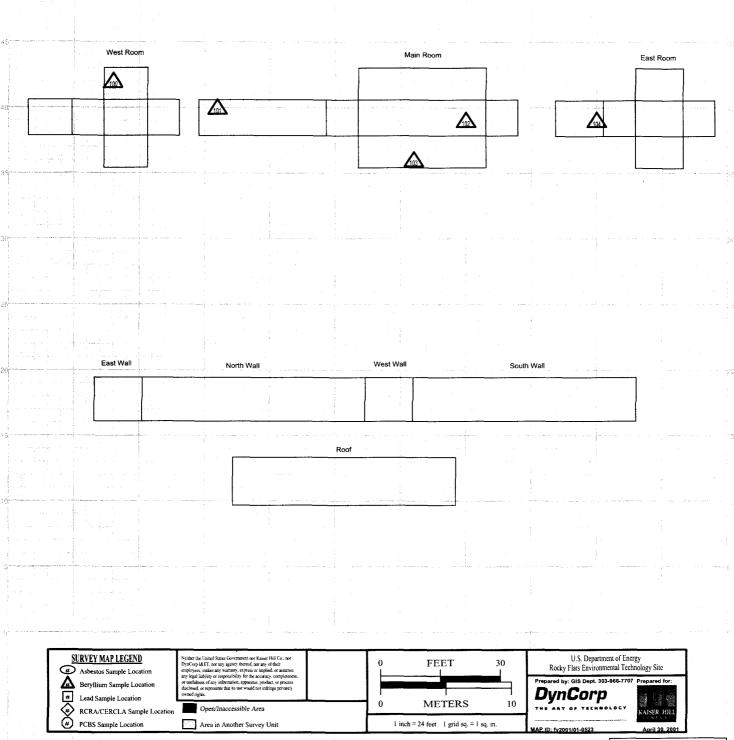
Page of Number Lab Time/Date Time/Date Time/Date Time/Date ☐ Unbroken JAMA GAL Date: Stayler Comments: I to A P.C. REMARKS Received by Received by Received by Received by Green - Sample Custodian Blue - Originator Condition of Seal: Broken Seal# (Release #) 74018001 Conterior Signature:_ Tre t 1000 100 Personal Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by Bldg/Ext: // W A (4 Industrial Hygiene Sample Other MEDIA Asbestos Samples Other Analysis Request Bush Rush SAMPLE TIME/ Yellow - Lab Copy □ 24 Rush Q Fime/Date ime/Date Time/Date Time/Date VOLUME Standard Standard liters Service + #1 Service Title: White - Return to Originator ANALYZE FOR Received by Received by Received by Received by P.O.#/Release: たいかんだい During La MUNCON 417 Report and Billing Instruction Buch Report To: Verbal To: 282-05222001-05-02 160-50 10011130-086 7.00 200 Fax To: 282-2521201-05-052 469 - 20 - 100 CLESK 500 200 - 20 - 100 Executor Bill To: 187-05 222001-05-021 Name of Originator: 🌶 Relinquished by Relinquished by Relinquished by Refinduished by SAMPLE NUMBER BIdg/Y/M/D/P#/S# Lab: 180-05111001-05 -20-10111120-085 20-1001102C 30.05222001.05 Kaiser-Hill DynCorp RMRS SSOC WSI



Survey Area: C Survey Unit: N/A Classification: N Building: Group 6 (T900D) Survey Unit Description: Interior & Exterior of T900D Total Area: 415.2 sq. m. Total Floor Area: 45.7 sq. m.

Building T900D Interior

7900D-05302001-05-100 Thru 104



PAGE 1 OF 1



Rocky Flats Environmental Technology Site Beryllium Wipe Sample Log

Page of

Shaded area = 100cm2 (le deviations from 100cm2) 100cm2 N W COO 1.000 Sampler (print): DAVID BABBS Signature: シャート Notes Employee #: Sibe of ceiling when fixture NIU CORNER HORIZONTAL SUCHOE OF SHELF, NY CORNER Sive of certine when Fix ure, East Side TOP EINE OF IMK ROAKD, SOUTH WHILL-FLOSE IN FRONT OF SE DUTXY DEDA Date: Empl.#: Description 7680010 IWCP#: NA RIN #: survey map Point on Example: 865-09022000-310 Ş 100 + WESTROOM NA 2.4 ** Sample Prefix: 5302001 5 Checked By (print/sign):_ 2 Main Cross 102 - OMOIN BOOM 1 Main Room 9 5.0 m. 12.00m Room Date -T900D Sequence # Bldg. -Sample Ö 507 103

RFP F 3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site Golden, CO 80402-0464 Safety and Hygiene Chain of Custody Record and Analysis Request

OLD (P. L. ZINA)

	Name of Orig	Name of Originator:	Bases Title:	IHES	•	Bldg/Ext:	Bldg/Ext: 77/14 / 07/12	Date:	Page	of
	SAMPLE NUMBER Bidg/Y/M/D/P#/S#	MBER P#/S#	ANALYZE FOR	VOLUME	SAMPLE TIME/	MEDIA A	Personal Area			Lab
	TIDID -05 30 2001-05-	05-100	Be				-1	01.4001		
	19400-05302001	4-65-101								
	121000 -0530 2001	101-05-102								
	T900-6530200-0	4-15-103								-
	1844 - 65 Juza	J. 2001-65 - 11 4								
			>	-	4	+		- Anna		
-										
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	· 80									
.:									<u> </u>	
	Relinquished by		Received by	Time/Date	Date <	Relinquished by	d by	Received by	Time/Date	0
,	Relinquished by		Received by	@_	te	Relinquished by	d by	Received by	Time/Date	
= :	Relinquished by	ned by	Received by	Time/Date	ej	Relinquished by	d by	Received by	Time/Date	
\	Relinquished by	led by	Received by	Time/Date	le l	Relinquished by	d by	Received by	Time/Date	
	Rep	Report and Billing Instruction	uction		Analysis Request	Request		Seal# (Release #)		
	Kaiser-Hill 🔀	Verbal To: D	Verbal To: Davis 64335		ndustrial Hyg	Industrial Hygiene Sample	0	Condition of Seal:		
		Fax To:	6638	X				Broken	Unbroken	
		Report To:	大平	Service			s 	Signature:		
	Dyncorp Wsi	BIII 10:	Z.	Е	Aspestos samples	samples	O 	Comments: 4	to marky	
	1 7	Lab:	07/24 04	Standard Service	24 2 Rush Rush	Other		the grant for		
		White - F	White - Return to Originator	Yellow - Lab Copy		Green - Sample Custodian	41	Blue - Originator		



Johns Manville Corporation 10100 West Ute Avenue (80127) P.O. Box 625005 Littleton, CO 80162-5005 Tel: (303) 978-3724

COVER PAGE

June 04, 2001

Shelly Johnsen

Rocky Flats Environmental Technology Site

P.O. Box 464, Bldg. 881 Golden, CO 80402-0464 Laboratory Report ID: 01060109

Laboratory Name:

Johns Manville IH Lab

Subcontract Number: KH800188

RIN:

01D0892

Requestor:

David Babbs

P.O./Charge Code:

EFD73420

Dear Ms. Johnsen:

The Johns Manville Industrial Hygiene Laboratory has performed the following analytical testing services as requested. The results were calculated based upon the information supplied on the submission form. All laboratory data have been filed and are available upon request. The Johns Manville Laboratory is accredited by the American Industrial Hygiene association (AIHA) in the industrial hygiene program (Certificate #056), and participates in the AIHA ELPAT program.

If you have any questions, please call (303) 978-2584.

I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the RFETS specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Sincerely,

Marilyn Andrews Manager of Analytical Services June 04, 2001

June 04, 2001

Laboratory Report ID:

01060109

Laboratory Name:

Johns Manville IH Lab

Subcontract Number:

KH800188

RIN:

01D0892 David Babbs

Requestor:
P.O./Charge Code:

EFD73420

Scope of Work:

Bottle Number(s)	Customer Number(s)	Laboratory ID Number(s)	Line Item Code	Sample Matrix	Instrument Run
01D0892-001.001	T900D0530200105100	01060109-001	NR01A001	WIPE	QU010601-H
01D0892-002.001	T900D0530200105101	01060109-002	NR01A001	WIPE	QU010601-H
01D0892-003.001	T900D0530200105102	01060109-003	NR01A001	WIPE	QU010601-H
01D0892-004.001	T900D0530200105103	01060109-004	NR01A001	WIPE	QU010601-H
01D0892-005.001	T900D0530200105104	01060109-005	NR01A001	WIPE	QU010601-H

24

01D0892#001 08:01 Date/Time Preservative; Packing ğ None None None None None ¥ ٤ **≸** ٤ Ş 10/1/01 Page C.O.C. # Temp. CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Due: 6/8/6, B Purchase Order/Charge Code EFD/3420 NR01A001 (Beryllium Filter Analysis) [5dS] Received By Bill of Lading/Air Bill No. 4533-2127-SPECIAL INSTRUCTIONS Hold Time Sample Analysis Felephone No. Date/Time Date/Time ce Chest No. 6401 Relinquished By: B Relinquished By: SCREENING REQUIRED 10534 1-FILTER / N/A /1 1-FILTER / N/A 1-FILTER / N/A 1-FILTER / N/A 1-FILTER / N/A (size/type/quantity) Container Date/Time Date/Time FEDERAL EXPRESS
Related COC (if any) JOHNSEN, SHELLY N/A Method of Shipment T900D T900D T900D T900D T900D Contact/Requester Location Sampling Origin T900D Logbook No. Are acid preserved samples DOT hazardous per 40 CFR Part 36.3 Table II? YES ONO
Are other known hazardous substances present? YES OFNO 7:00 AM 7:00 AM 7:00 AM 7:00 AM 7:00 AM (time/date) Time 10/ Received By: Received By 05/30/ 2001 05/30/ 2001 05/30/ 05/30/ 2001 05/30/ Date Time 80 FILTER FILTER FILTER FILTER FILTER Matrix POSSIBLE SAMPLE HAZARDS/REMARKS 5-31-01 T900D053020010 5100 T900D053020010 5102 T900D053020010 5101 T900D053020010 5103 T900D053020010 5104 Commodore Advanced Customer Number Johns Manville RFETS Project Title T900D BE SMEARS Sciences, Inc. 01D0892 Sampler(s) DAVID BABBS Relinquished By 01D0892-01D0892-01D0892 01D0892-01D0892-Bottle No. 001.001 003.001 004.001 005.001 002.001 (Cab) ** Protocol

Date/Time Date/Time Date/Time Date/Time Received By: Date/Time Received By: Disposed By Date/Time Relinquished By: Date/Time Relinquished By: FINAL SAMPLE Disposal Method (e.g., returned to customer, disposed of per lab procedure, used in analytical process)

DISPOSITION Date/Time Received By: Date/Time Received By: Relinquished By: Relinquished By:

NARRATIVE

The laboratory did not encounter any problems or questions associated with the receipt of samples into the laboratory. All samples identified on the Chain-of-Custody (COC) form were received and accepted in good condition with tamper-resistant seals intact. (1.d, 4.b, 4.e)

Whatman 4 or Whatman 41 swipe samples were submitted in this project and analyzed for the identification and quantitation of beryllium in accordance with Line Item Code (LIC), NR01A001. The methodology does not define any required specific holding times for the compound on the sampling media. Results of the sample analyses were generated and reported by the specified turn-around time (TAT). (4.f., 5.6, 5.f., 6.b.7)

The laboratory preparation of samples in this project was performed following laboratory Standard Operating Procedure (SOP), IH M-1.02, Revision N. Additional references to the preparation technique of this sample type are addressed in EPA Method, 3015A and CEM Application Procedure, MS-9. The samples were prepared using the CEM Microwave Sample Preparation System, Model MDS 2000. The instrumental sample analysis for these samples follows SOP, IH M-1.04, Revision N, which covers the analytical procedure outlined in OSHA method, ID-125G. Start-up and calibration of the Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) instrument are performed following manufacturer's instructions and are addressed in SOP, IH M-1.03, Revision N. (5.a)

Results of all calibration verifications (initial and continuing), method blanks (calibration and matrix), Laboratory Control Samples (LCDs), Laboratory Control Sample Duplicates (LCDs) and internal QA/QC program monitoring standards for this analytical batch are within acceptable limits as specified in Statement of Work (SOW) modules, GR01-B.3 and NR01-A. (5.c, 5.d.2, 5.d.3, 6.b.2-6)

The internal quality control procedures for statistical monitoring of analytical data to ensure the production of quality results with continuing high validity are addressed in the JMTC IH Laboratory Quality Assurance Manual, Section 10.0. Results of all method-specific QC assessments for this analytical batch are within acceptable limits in accordance with SOW modules, GR01-B.3 and NR01-A. (5.c, 6.b.1)

The Instrument Detection Limit (IDL) has been determined to be 0.00028 µg/ml using the ICP-AES instrument, Perkin Elmer - Optima model 3000DV. Method Detection Limit (MDL) determinations are performed in accordance with the EPA Method contained in 40 CFR Part 136, Appendix B. The MDL for beryllium on the Whatman swipe matrix by ICP-AES has been determined to be 0.012 µg/swipe. These values meet the required detection limits for SOW module, NR01-A. (5.d.1) The sample batch did not require any sample re-analyses due to dilutions or any anomalies. (5.d) The qualifiers used for the results page are "U" for non-detect and "J" for levels greater than the MDL, but less than the Reporting Limit.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate N. 056) and continues to rate proficient within the Proficiency Analytical Testing (PAT) program. This program is designed for laboratories involved in analyzing samples taken in the workplace environment. The JMTC IH Analytical Laboratory is also accredited in the Environmental Lead Laboratory Accreditation Program (ELLAP), which is recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP). This program accredits and monitors performance of laboratories testing for lead in environmental samples such as paint, soil, dust wipes and air. (5.a)

June 04, 2001

Laboratory Report ID 01060109

Laboratory Name: Johns Manville IH Lab Subcontract Number: KH800188

01D0892 David Babbs EFD73420 RIN:

Requestor:
P.O./Charge Code:

QUICK RESULTS SUMMARY

Customer	Laboratory	Requested	Reporting	ō	CONCENTRATION		Air Vo	Air Vol or	Air
Number	ID Number	Analysis	Limit	Back Section	Back Section Front Section	Total	Q Tin	Time Concentration	entration
T900D0530200105100	01060109-001 Beryllium	Beryllium	0.1 µg			< 0.1 µg	n		
T900D0530200105101 01060109-002 Beryllium	01060109-002	Beryllium	0.1 µg			< 0.1 µg	n		
T900D0530200105102	01060109-003 Beryllium	Beryllium	0.1 μg			<0.1 µg	n		
T900D0530200105103	01060109-004 Beryllium	Beryllium	0.1 µg			<0.1 µg	n		
T900D0530200105104 01060109-005 Beryllium	01060109-005	Beryllium	0.1 μg			<0.1 µg			

June 04, 2001

Johns Manville IH Lab Laboratory Report ID 01060109
Laboratory Name: Johns Many

Subcontract Number: KH800188

01D0892 Requestor:

RIN

David Babbs EFD73420 P.O./Charge Code:

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QC Parameter	QC Item Type	Compound	Expected	Actual	Percent	QC Sample ID	Date	Instrument
			Recovery	Recovery	Recovery		Analyzed	Run
Preparation Blank	PB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/4/01	QU010601-H
Matrix Blank	MB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/4/01	ОП010601-Н
Matrix Blank Spike	MS1	Beryllium	5.0 µg	5.32 µg	106.4		6/4/01	QU010601-H
Laboratory Control Sample	LC1	Beryllium	9.0 и в	8.94 µg	99.3	QC01051834	6/4/01	QU010601-H
Laboratory Control Duplicate	LC1a	Beryllium	9.0 и в	8.97 µg	7.66	QC01051834	6/4/01	QU010601-H



1		



COPY			Property	Waste	Sample
RELEASE EVA	LUAT	TON FOR	M		
₋ Page	1 of 2			•	
Release Evaluation No. <u>010530-00116-001</u> EXTENDED:	NŐ	_ EXPIRES:_	N/A	_ Charge No.:	N/A
PART I		SENDER/CU	ISTODIAN	ACKNOWLED	GEMENT
Description of Property/Waste/Sample To Be Released/Tran obtained for Be analysis in T900D. Sample #'s are as follows: T 05302001-05-102, T900D-05302001-05-103, T900D-05302001	900D-05	302001-05-100,			
Current Location: Building 116					
Destination: John Mansville Technical Center, PO Box 62500	5, Littleto	on, CO 80162-50	005		
New Recipient/Custodian: Same as above					
History/Process Knowledge: Swipe samples came from the int indicate this facility has never been posted as a CA/RBA. The f					ocuments
1) By signing below, I certify information provided in Part I of (2) By signing below, I agree to comply with the specific require					
Sender/Custodian: David Babbs (Av.) (A333 Emp	o. No:		Date: 5/3	//01_Ext: _47	17
PART II		RAI	DIOLOGI	CAL ENGIN	EERING
SPECIFIC REQUIREMENTS AND/OR COMME	ENTS:				
The samples specified above have been reviewed by R indicates that there are no radiological concerns. As REQUIRED prior to transfer to the receiving labora	a result		-		_
Custodian: Ensure only indicated samples are deliver appropriate personnel for coordination of sample acc			•	· ·	. Notify
This is an unrestricted release.					
Evaluated: Jay M. Britten / Jay M. Emp Radiological Engineer			Date: 5/3/	Ext: 30	50
APPROVAL FOR T	RANSFE	ER/SHIPMENT			
Approved: Jay M. Britten / Jay M. Britten / Emp	. No:		Date: <u>5/3/</u>	Ext: 30	50

Rev 08/98

Approved: Jay M. Britten / July Radiological Engineer

@RAH

PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 010530-00116-001

COPY

Page 2 of 2

Release Evaluation for Waste:

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page __ of __, initials of Radiological Engineer signing approval for transfer/shipment and date.





Rocky Flats Environmental Technology Site

CHEMICAL CHARACTERIZATION PACKAGE

400/500/900 BUILDING CLUSTER CLOSURE PROJECT

REVISION 1

FEBRUARY 20, 2001

Prepared by: _	Japan Jangha
	Industrial Hygiene
Prepared by: _	- Sla Drugg
*0 ₁₋₃	Environmental Compliance
Reviewed by: _	La super an esca con contra de la consecución del consecución de la consecución de l
	Quality Assurance
Reviewed by: _	For a far 2/21/01
	RISS Facility Characterization Coordinator
Approved by:	
	Closure Project Facility Manager



BAP 2/26/4

BUILDING(s): 400/500/900 CLUSTER - (T551A, 442W, 442L, T900D)

- * This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.
- * PDSP Data Quality Objectives were used to develop this characterization package.

Instructions:

- 1. Verify characterization activities are on the Plan-of-the-Day (POD).
- 2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
- 3. Verify personnel have appropriate training for the applicable tasks they will be performing.
- 4. Comply with RWP requirements, if applicable.
- 5. Comply with JHA and facility PPE requirements, as applicable.
- 6. Inform the Facility Manager, or designee prior to starting characterization activities.
- 7. Follow applicable characterization and sampling procedures.
- 8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
- 9. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
- 10. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
442 L&W	37	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure
T900D		As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
T551A	20	Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
Total Samples:	64	The exact sample numbers and locations will not be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

Removed Official

BERYLLIUM		
Sample Location	Number of	Sample location and justification/rational
	Samples	
	(Smears)	
442 L&W	Room 101 -	Process history indicates B442W, Rooms 101 and 105 may have been
	15 random,	used as a beryllium storage areas, no documented supporting data or
	2 biased	process history proves otherwise. Therefore, random and biased sampling
	Room 105	will be performed in Rooms 101 and 105. Room 101 and 105 are
	36 random,	approximately 1900 sq. ft, and 5400 sq. ft respectively.
	4 biased	
	All other	There is no documented supporting data or process history that proves
	Facility	beryllium was not used or stored in the remaining portions of B442 L&W.
	areas	Therefore, two biased samples per building will be obtained in areas other
	5 – biased	than B442W, Rooms 101 and 105.
T551A	5 – biased	No historical association with Beryllium. Sample locations will be biased
		and will be determined at the time of sampling.
T900D	5 - biased	No historical association with Beryllium. Sample locations will be biased
		and will be determined at the time of sampling.
Total Samples:	72	Samples will be obtained at locations specified on sample map(s) in
		accordance with PRO-536-BCPR, Beryllium Characterization Procedure.
		Biased sample locations will correspond with the most probable areas of
		dust accumulation (including beryllium dust), assuming airborne
		deposition.

Sample Location	Number of Samples	Sample location and justification/rational
400, 500, 900 Cluster, all locations the state of	0	Lead sampling is not required in the 400, 500, 900 Cluster. All paint will remain a part of the infrastructure during demolition and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
Total Samples:	0	

RCRA/CERCLA CONSTITUENTS		
Sample Location	Number of Samples	Sample location and justification/rational
442L & 442W	0	A walk-down of the building, review of building historical documents and conversations with personnel assigned to the building, with historical knowledge of the processes in the building, indicate that no major spills of concern occurred within the building. Dioctyl phthalate was used in the building in vacuum pumps, and while some material was probably dripped on the floor during the course of operations, it was in small quantities that were immediately cleaned up. The only incident that appears to have occurred at the building involved a spill of oil in the soil outside the building. It was remediated at the time of the spill, and turned out to be regular oil, not dioctyl phthalate, as suspected, therefore no sampling is required.
T551A	0	Process knowledge and a walk-down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.



T900D	0	Process knowledge and a walk down of this building indicates that no
		RCRA/CERCLA constituents of concern or historical spills exist in the
		trailer, therefore no sampling is required.
Total Samples:	0	

PCBs		
Sample Location	Number of Samples	Sample location and justification/rational
442L, steam pump	4 (3 + duplicate)	There is visible staining on the concrete pad surrounding the steam pump from oil used to lubricate the pump (approximately 25 sqft). This oil could have been contained PCBs at one time. Core sampling (2" diameter, 2" depth) in the number indicated should be conducted to determine the presence or absence of PCBs. (Deeper samples will be taken in the unlikely event that contamination appears to have migrated farther than 2" into the slab.) Disposal of the entire slab as PCB bulk remediation waste would likely be more expensive, and would require soil sampling to determine any migration under the slab.
T551A	0	Process knowledge and a walk-down of this building indicates no potential for PCB contamination, therefore no sampling is required.
T900D	0	Process knowledge and a walk down of this building indicates no potential for PCB contamination, therefore no sampling is required.
Total Samples:	4	

Reverted =

PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.



Rocky Flats Environmental Technology Site

CHEMICAL CHARACTERIZATION PACKAGE

400/500/900 BUILDING CLUSTER CLOSURE PROJECT

REVISION 0

FEBRUARY 1, 2001

	(James)
Prepared by: _	That I wanted
	Industrial Hygiene
and the second second	
Prepared by: _	Did Vilus
40 (4 40 (4 5 5) + 1 =	Environmental Compliance
Reviewed by:	500 000 24/01
	Quality Assurance
	and the second s
Reviewed by:	- 2/1/01
	RISS Facility Characterization Coordinator
	Ι . Λ
	VIM MULTIN FOR FORM GUERS FOR IN AZZ
Approved by:_	VIM NUTTIN FOR FRANK GIBBS FOR 400 APEA Closure Project Facility Manager
	Closure Project Facility Manager
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mk. 10	Page 1 of 3

CHEMICAL CHARACTERIZATION PACKAGE

BUILDING(s): 400/500/900 CLUSTER - (T551A, 442W, 442L, T900D)

Note: This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
442 L&W	37	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure
T900D	7	Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
T551A	20	Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
Total Samples:	64	The exact sample numbers and locations will not be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

BERYLLIUM				
Sample Location	Number of	Sample location and justification/rational		
	Samples			
	(Smears)			
442 L&W	Room 101 -	Process history indicates B442W, Rooms 101 and 105 may have been		
	15 random,	used as a beryllium storage areas, no documented supporting data or		
	2 biased /	process history proves otherwise. Therefore, random and biased sampling		
	Room 105 -	will be performed in Rooms 101 and 105. Room 101 and 105 are		
	36 randóm,	approximately 1900 sq. ft, and 5400 sq. ft respectively.		
	4 bjased			
	All other	There is no documented supporting data or process history that proves		
	/Facility	beryllium was not used or stored in the remaining portions of B442 L&W.		
	/ areas	Therefore, two biased samples per building will be obtained in areas other		
	5 – biased	than B442W, Rooms 101 and 105.		
T551A	5 – biased	No historical association with Beryllium. Sample locations will be biased		
		and will be determined at the time of sampling.		
T900D 5 - biased No hi		No historical association with Beryllium. Sample locations will be biased		
		and will be determined at the time of sampling.		
		Samples will be obtained at locations specified on sample map(s) in		
		accordance with PRO-536-BCPR, Beryllium Characterization Procedure.		
and the second s		Biased sample locations will correspond with the most probable areas of		
		dust accumulation (including beryllium dust), assuming airborne		
L		deposition.		

Louis Kar of Mills

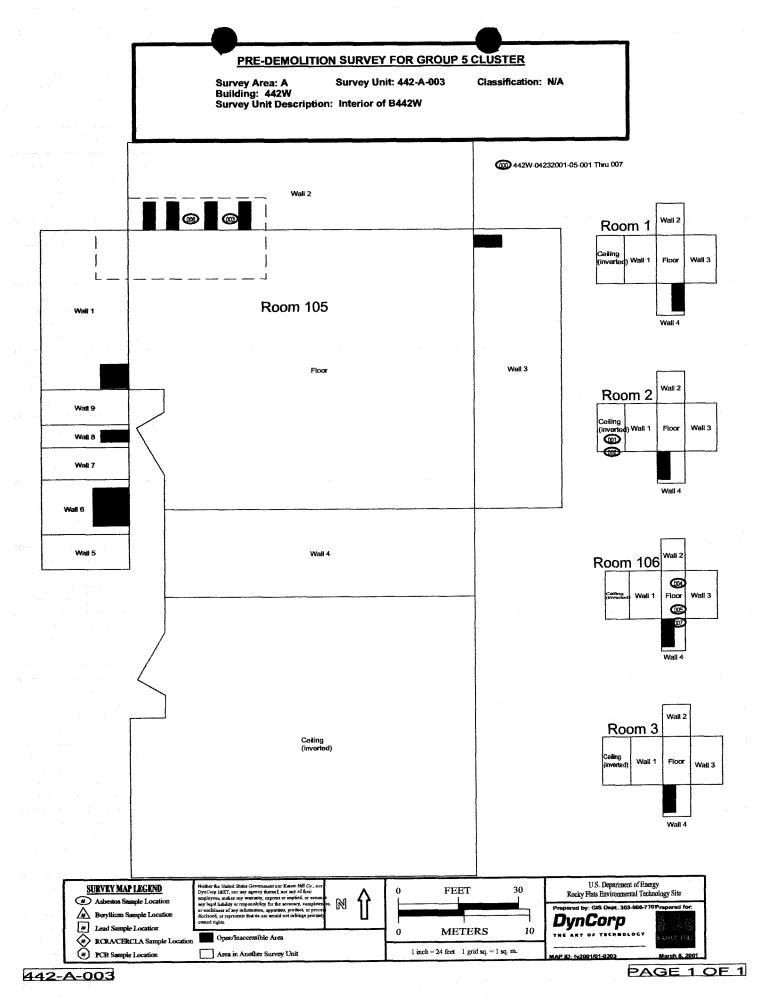
LEAD		
Sample Location	Number of Samples	Sample location and justification/rational
400, 500, 900 Cluster, all locations	0	Lead sampling is not required in the 400, 500, 900 Cluster. All paint will remain a part of the infrastructure during demolition and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
Total Samples:	0	

RCRA/CERCLA CO	NSTITIUENTS	
Sample Location	Number of Samples	Sample location and justification/rational
442L & 442W	0	A walk-down of the building, review of building historical documents and conversations with personnel assigned to the building, with historical knowledge of the processes in the building, indicate that no major spills of concern occurred within the building. Dioctyl phthalate was used in the building in vacuum pumps, and while some material was probably dripped on the floor during the course of operations, it was in small quantities that were immediately cleaned up. The only incident that appears to have occurred at the building involved a spill of oil in the soil outside the building. It was remediated at the time of the spill, and turned out to be regular oil, not dioctyl phthalate, as suspected, therefore no sampling is required.
T551A	0	Process knowledge and a walk-down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.
T900D	0	Process knowledge and a walk-down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.
Total Samples:	0 ,	

PCBs		
Sample Location	Number of Samples	Sample location and justification/rational
442L, steam pump	4 (3 + duplicate)	There is visible staining on the concrete pad surrounding the steam pump from oil used to lubricate the pump (approximately 25 sqft). This oil could have been contained PCBs at one time. Sampling as indicated should be conducted to determine the presence or absence of PCBs. Disposal of the entire slab as PCB bulk remediation waste would likely be more expensive, and would require soil sampling to determine any migration under the slab.
T551A	0	Process knowledge and a walk-down of this building indicates no potential for PCB contamination, therefore no sampling is required.
T900D	0	Process knowledge and a walk-down of this building indicates no potential for PCB contamination, therefore no sampling is required.
Total Samples:	4	

^{*} PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

Conto to Kilo



PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

Survey Area: D

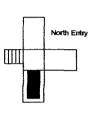
Survey Unit: 551-D-006

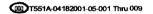
Classification: N/A

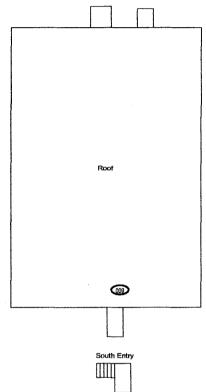
North Entry

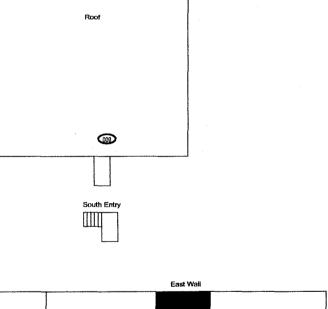
Building: Trailer 551A
Survey Unit Description: Exterior of T551A

Building T551A Exterior









South Wall	East Wail
	-
North Wail	West Wali
	VFGS (VOII

SURVEY MAP LEGEND Asbestos Sample Location	Norther the United States Government nor Kasser Hill Co., nor DynCorp 1&ET, nor any agency thereof, nor any of their emplayees, makes any warranty, express or implied, or assume	0 FEET 30	U.S. Department of Energy Rocky Flats Environmental Technology Site
Beryllium Sample Location Lead Sample Location	ary legal hability or responsibility for the accuracy, completed as, or usefulness of any information, apparatus, product, or proceed disclosed, or represents that its use would not unfringe privately awared rights.		Prepared by: GIS Dept. 303-968-770Prepared for: DynCorp
RCRA/CERCLA Sample Location	Open/Inaccessible Area	0 METERS 10	THE ART OF TECHNOLOGY PAISE HALL
PCBS Sample Location	Area in Another Survey Unit	1 inch = 24 feet 1 grid sq. = 1 sq. m.	MAP ID: [v2001/01-0303 March 6, 2001

551-D-006

PAGE 1 OF 1

PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

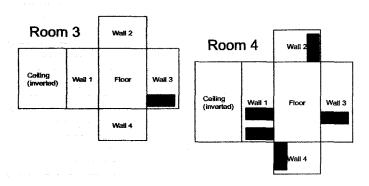
Survey Area: C

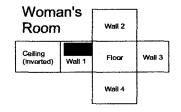
Survey Unit: 551-C-005

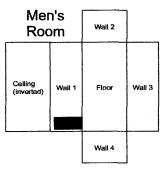
Classification: N/A

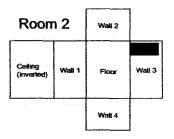
Building: Trailer 551A Survey Unit Description: Interior of T551A

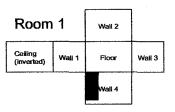
T551A-04182001-05-001 Thru 009

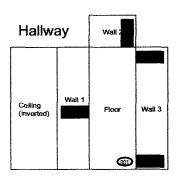


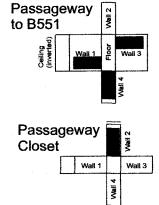


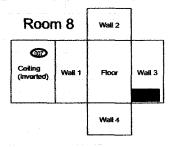


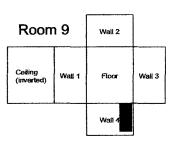


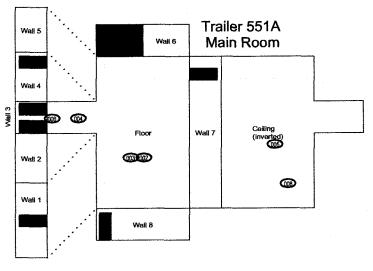


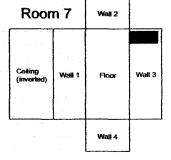


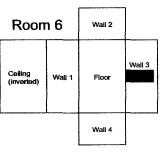








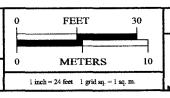






PCBS Sample Location

M Open/Inaccessible Area Area in Another Survey Unit



U.S. Department of Energy Rocky Flats Environmental Technology Site DynCorp

Page 1 of 1

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accrelised Laboratory # 101896 TDH Livensed Laboratory # 30-0136

TABLE I. PLIN BULK ANALYSIS, PRRCENTAGE COMPOSITION BY VOLUME

RES 76899-1H	Keiter-Hill Analytical Services Division	01D0712/ EFDA1712	On-side Sample Analysis, A. Gonzalez
DEC 154 Number	Circle 300 Interest	Climat Decised Number (P.O.:	Client Project Newscond

	On-side Natitible An	May 1, 2001	THE REPORT OF AMERICA	FLM SEGIT REPORT
Cited Project Number 11:0	Client Project Description:	Date Complex Received	Date Dampies toward	Analysis Type:

			(
	Analyst: TDL	NON.	Asbestos
			Sub
May 1, 200f	PLN Short Reject, Dank	24 Hoor	Lab
Date Samples Received:	Analysis Type:	Turnaround:	Client

Tumaround:							RON RON	Luck
[]	F		L.		, i		Asbestos	Fibrous
Same	E G	ID Number	٧	•		(=-	Fibers	Components
Number			<u>ک</u> ت	Priyakai Description	الششد	Mineral Visual	Consponents	E
							2	001
T551A-84182401-05-001	E_	EM 539877	₹ ¤	Tan mastic White/tan tile	7 66	an an	. 0	100
		-	1		,		2	100
TS51A-04182001-15-602	EM	EM 539878	₹ 8	Tan wasik WhiteMan tile	2 <u>2</u>	9		100
		530870	4	Tan mastic	01	ND	0	100
TSS1A-04182001-05-003	I I	737677	t m	White tile	96		<u> </u>	3
		£30880	⋖	While tile	100	QN	C	100
ESSIA-04182IWI-05-IO4	Z Z	237600	ζ					0
T551.A-04182001-05-605	EM	239881	¥	White/lan drywall	100	a X	R	0
	į		<	or see from drawell who life granular paint	100		91	3
TSS1A-04182001-05-006	<u> </u>	799650	4	אַן אַרוּאַרְאַרְאַרָּאָרָאָרָאָרָאָרָאָרָאָרָאָרָאָרָאָרָא				
1755 8 A A 1878 18 15 40 7	EM	539883	4	White/lan dryvall whalic granular paint	100			2
					45	2	93	7
TS51A-04182001-05-408	W C	539884	∢	Pink fibrous material	3			
	Ç	128 530885	4	Back the	2	ON	IS	82
TSS1A-8418ZW01-45-WV	T T	No.Cr						



Treat-Act = Trainelite-Actinolite

ND = None Detected TR = Trace, < 155 Visual Letinade

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

010 0712

Safety and Hygiene Chain of Custody Record and Analysis Request

REP F 3791.32 (7/95) Formarly RF-47530

KAULLI Lab Number Page / of Time/Date Time/Date Time/Date Time/Date ☐ Unbroken 466 40 Date: 4/24/91 LOWAY. HEMARKS Green - Sample Custodian Blue - Originalor Received by Received by Received by Received by ☐ Broken Condition of Seal: Seal# [Release #) Signature: Comments: CHOLE ODS (46727) Регѕопа Area Buk 4 Relinquished by Refinquished by Relinquished by Relinquished by BIdg/Ext: ///, Speed Industrial Hygiene Sample ∢ @ SEC. Asbestos Samples MEDIA Analysis Request AG SON HUSS. SAMPLE Yellow - Lab Copy Samples 481 **□**≉₹ TIME Time/Date // 15:00 | 4-30-4/ Time/Date Time/Date Time/Date 2 Standard Service Standard Service VOLUME 1441 liters White - Return to Originator Title: Courde Regived by ANALYZE FOR Received by Letenveles Received by P.O.#/Release: EFUM 17/2 Received by 4.16c/to Bossels Report and Billing Instruction Report To: Verbal To: TSSIA.04182001-05-006 1551A-04182001-05-001 5514-04112001-05-00 1351A-041BABBI-05-012 7551A-04182001-05-004 7551A-0418200-05-003 1551A-04182001-05-002 7551 A-04(82001-05-002) Fax To: Bill To: 7551A-04163001-05-00 Name of Originator: A Relinquished by Lab: Relinquished by Relinquished by Figurialished by SAMPLE NUMBER BIGN/MID/P#/S# Kaiser-Hill DynColp HMRS SSOC

RFP F 3791.32 (7/95) Formerly RF-47530

поску Flats Environmental Technology Site 80402-0464 Golden, CO

Safety and Hygiene Chain of Custody Record and Analysis Request

jo O Number Time/Date Time/Date Time/Date Time/Date Page ☐ Unbroken Date: 4/24/24 REMARKS Received by Received by Received by Received by Green - Sample Custodian Blue - Originator Broken Condition of Seal: Seal# (Release #) THOTEOS Comments: Signature: Persona Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by Bldg/Ext: $\mathbf{a} \wedge \mathbf{a}$ Industrial Hygiene Sample MEDIA Other Asbestos Samples Other_ Analysis Request Rush SAMPLE TIME/ Rush Other Yellow - Lab Copy 24 Rush Time/Date Time/Date Time/Date Time/Date VOLUME Standard liters Standard Service Service 05. Title: White - Return to Originator ANALYZE FOR Received by Received by Received by Received by 1417 P.O.#/Release: Е г.ді / // д Report and Billing Instruction 155,14 04/6000 05:00le 500-20-1001/1/C-75514 - 0418 2001-05-004 300-30-10118140--0418 201-05-05 21 500-30-100(11K) Report To: 300-20-100 Albano. 05-005 Verbal To: 15511-04182001-05-1221 15514-0415204-05-021 Fax To: Bill To: Name of Originator: SAMPLE NUMBER BIdg/Y/M/D/P#/S# Relinquished by Relinquished by Relinquished by Relinguished by Lab: $\mathbf{Z} \Box$ Kaiser-Hill DynCorp **RMRS** SSOC MSI

Analyst: PDL

Page 1 of 1

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accedited Laboratory # 101896

TDH Livensed Laboratory # 30-0136

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

KES /6899-1	Kaiser-Hill Analytical Services Division	61D0712/ EFDA1712	On-Site Sample Analysis, A. Gonzalez	May 1, 2001	PLM Shart Report, Bulk	24 Hour
RES Job Number:	Client:	Client Project Number / P.O.:	Client Project Description:	Date Samples Received:	Analysis Type:	Turnaround;

- Company	46.1		-			A diestra Conten	Non	Non-
Sample	D Number	mber	-		Sub		Asbestos	Fibrous
Number			; >-	Physical	Part	\ 	Fibers	Components
			田卍	Description	8	Mineral Visual Retinante (%)	Components (%)	(%)
T7551A-04182001-05-001	EM	539877	Ą	Tan mastic	1	ÛN	0	100
			B	White/tan tile	\$	QN.	0	001
T7551A-04182001-05-002	EM EM	539878	¥	Tan mastic	N	QN	0	100
			В	White/tan tile	95	QN	0	001
T7551A-04182001-05-003	EM	539879	¥	Tan mastic	10	QN.	Ó	001
		**********	8	White tile	8	QN	Ċ.	001
77551A-04182001-05-004	EM	539880	¥	White tile	100	ON	0	100
T7551A-04182001-05-005	EM	539881	∢	White/tan drywall	100	QN.	20	80
T7551A-04182001-05-006	EM ;	539882	¥	White/tan drywall w/white granular paint	100	UN	10	06
T7551A-04182001-05-007	EM :	539883	¥	White/tan drywall w/white granular paint	100	QN.	01	06
T7551A-04182001-05-008	EW	539884	Ą	Pink fibrous material	100	(IN)	93	
T7551A-04182001-05-009	EM .	539885	Ą	Black tar	100	N.	15	85



ND = None Defected TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite

Rocky Flats Environmental Technology Site

RFP F 3791.32 (7/95)

Formerly RF-47530

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

2170 010

√o⁄ Lab Number 144/41 Fime/Date Time/Date Time/Date Time/Date Page ☐ Unbroken Date: 4/24/0/ (ourt 4246 **REMARKS** Received by Received by Received by Received by Green - Sample Custodian Blue - Originator Condition of Seal: Seal# (Release #) THOSTONS Signature: 146727 Persona Area Bulk to Bldg/Ext: //// Relinquished by Relinquished by Relinquished by Relinquished by Speed **4** B Industrial Hygiene Sample MEDIA Other Asbestos Samples Other SAG SON Analysis Request ☐ ~ ∰ SAMPLE Rush Samples TIME 188 Yellow - Lab Copy □ 22 E Time/Date // 50 | 4-36-4/ Time/Date Time/Date Time/Date E VOLUME 144 liters Standard Service Stendard Title: White - Return to Originator ANALYZE FOR borza r Repeived by Received by Received by Received by 4.166.10 BF041712 Name of Originator: A. Canzele 1. Report and Billing Instruction P.O.#/Release:_ 551A.04182001-05-006 5514-04(62001-05-007 5514-04182001-05-009 5514-04182001-05-004 15514-04182001-05-001 7551 A-04182001-05-003 551 A-04 182001-05-002 7551 A-04(82001-05-005 Report To: Verbal To: 7551A-04162001-05-001 Fax To: Bill To: SAMPLE NUMBER BIdg/Y/M/D/P#/S# **Selinguished** by Relinquished by Relinquished by Relinquished by Lab: য় Kaiser-Hill DynCorp **RMRS** SSOC

FOOTHILLS ENVIRONMENTAL, INC.

Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300

Golden, CO 80401 Phone: (303) 275-3470 Fax: (720) 489-2832

ASBESTOS BULK SAMPLING FORM

	NUMBER:	Sample Location	Entrance to trens house	letter at train hour	Cetters Main Roca	Hallows to comes 7+8	Cesteres Ann Rase	Hall columns to house 700	Boon 8	Muin Rock	Roch					
LOCATION:	SAMPLED BY: PROJECT NUMBER:	Sample Description	12" x12" yellow/ Grann with yellow yeastic	21 11 12 11 11 12 12 12 12 12 12 12 12 1	18 X12" white with blue strails & yellow master		ceiling digneral with ringle covering - no topicient contain laster of from Rades	ceiling disposif with visal concess, - 10 time.	Colley drywill with was covering as the	piak interior duct involation	roof tar-Sluck					
	SA	Sample Type	Jlec- 4, le	Slee 46	74 -10)5	(100- +ile	digwell	drawill.	Ary 2.11	Mile	71,26.					
CLIENT NAME:	SAMPLE DATE:	Sample Number	7551A-04182001-05-001	15514-80-10008140-A125T	7551A-0418 2001-05-005	7551A.O4182001.05-004 (100- +16	7551 A-04182001-05-005 dymill	7551A : 04182001 : 05 - 050		7551A-04182601.05-008	75514.04135001.05.03					

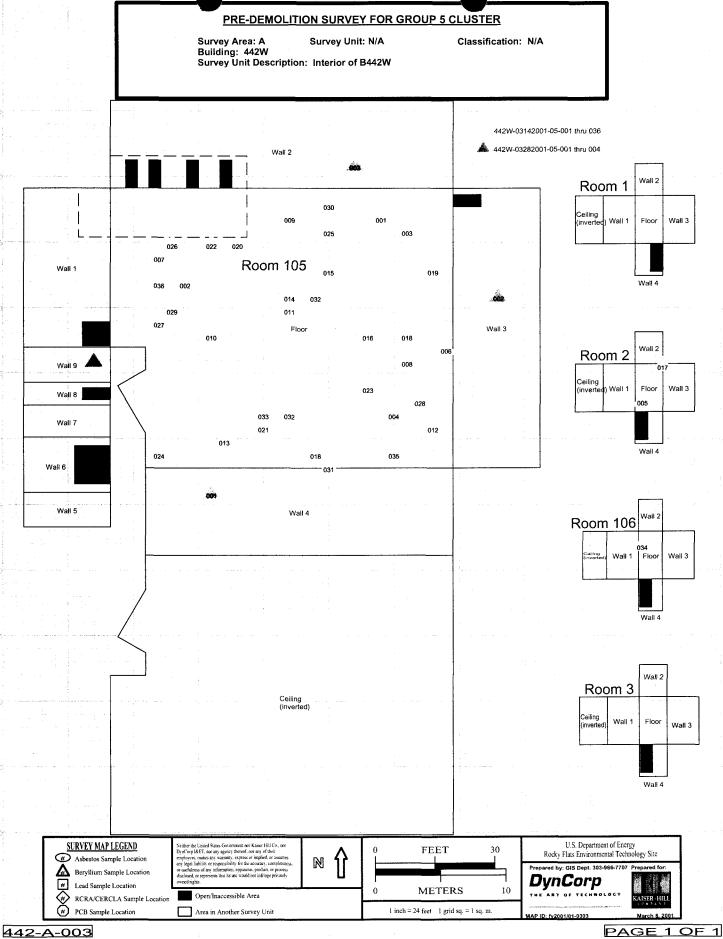
Metal root vith black tar patchel

Interior walls - would panels over word frame. Louism

Extens- wills . word peacls on deposit . A tigh. Diberglass insulation intel wills

All TIT Colon hill as week! No Place Like beneall carpet,





PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

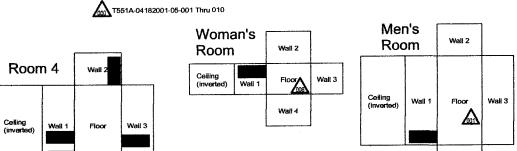
Survey Area: C

Area in Another Survey Unit

Survey Unit: 551-C-005

Classification: N/A

Building: Trailer 551A Survey Unit Description: Interior of T551A



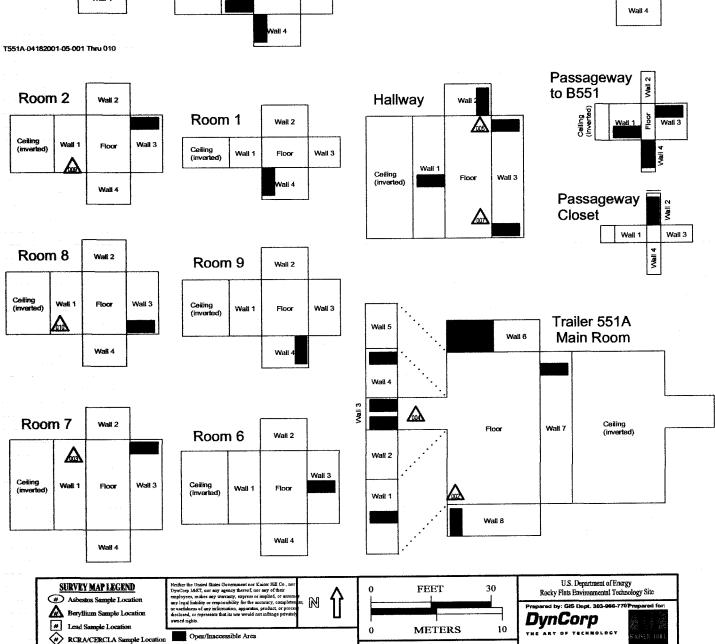
◬

Room 3

Ceiling (inverted)

Wall 2

Wall 3



1 inch = 24 feet 1 grid sq. = 1 sq. m.

551-C-005

PCBS Sample Location

PAGE 1 OF 1



Johns Manville Corporation 10100 West Ute Avenue (80127) P.O. Box 625005 Littleton, CO 80162-5005 Tel: (303) 978-3724

COVER PAGE

May 17, 2001

Shelly Johnsen Rocky Flats Environmental Technology Site P.O. Box 464, Bldg. 881 Golden, CO 80402-0464

Laboratory Report ID 01051503

Laboratory Name:

Johns Manville IH Lab

Subcontract Number: KH800188

RIN:

01D0711

Requestor:

Andre Gonzalez

P.O./Charge Code:

EFD41712

Dear Ms. Johnsen:

The Johns Manville Industrial Hygiene Laboratory has performed the following analytical testing services as requested. The results were calculated based upon the information supplied on the submission form. All laboratory data have been filed and are available upon request. The Johns Manville Laboratory is accredited by the American Industrial Hygiene association (AIHA) in the industrial hygiene program (Certificate #056), and participates in the AIHA ELPAT program.

If you have any questions, please call (303) 978-2584.

I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the RFETS specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Sincerely,

Marilyn Andrews Manager of Analytical Services May 17, 2001



May 17, 2001

Laboratory Report ID:

01051503

Laboratory Name:

Johns Manville IH Lab

Subcontract Number:

KH800188

RIN:

01D0711

Requestor:

Andre Gonzalez

P.O./Charge Code:

EFD41712

Scope of Work:

Bottle Number(s)	Customer Number(s)	Laboratory ID Number(s)	Line Item Code	Sample Matrix	Instrument Run
01D0711-001.001	T551A04182001-05-001	01051503-001	NR01A001	WIPE	QU010516-B
01D0711-002.001	T551A04182001-05-002	01051503-002	NR01A001	WIPE	QU010516-B
01D0711-003.001	T551A04182001-05-003	01051503-003	NR01A001	WIPE	QU010516-B
01D0711-004.001	T551A04182001-05-004	01051503-004	NR01A001	WIPE	QU010516-B
01D0711-005.001	T551A04182001-05-005	01051503-005	NR01A001	WIPE	QU010516-B
01D0711-006.001	T551A04182001-05-006	01051503-006	NR01A001	WIPE	QU010516-B
01D0711-007.001	T551A04182001-05-007	01051503-007	NR01A001	WIPE	QU010516-B
01D0711-008.001	T551A04182001-05-008	01051503-008	NR01A001	WIPE	QU010516-B
01D0711-009.001	T551A04182001-05-009	01051503-009	NR01A001	WIPE	QU010516-B
01D0711-010.001	T551A04182001-05-010	01051503-010	NR01A001	WIPE	QU010516-B

Commodo Sciences	Commodore Advanced Sciences		Ö	CHAIN O	OF CUSTOI	Y/SAMPL	E ANALYSIS R	F CUSTODY/SAMPLE ANALYSIS REQUEST Due: 6/2.	C.O.C.	01D0711#001
	RFETS							A. A	% Page	1 of 2
Sampler(s) ANDRE GONZALEZ	IZALEZ.		(tin	(time/date)	Contact/Requester JOHNSEN, SHELLY			Telephone No. 6401		
RIN 01D071	11			S	Sampling Origin T551 A			Purchase Order/Charge Code EFD41712		
Project Title T551A BF SMFARS	AFARS			3	Logbook No. N/A			Ice Chest No.	Temp.	
To (Lab) Joh	Johns Manville			X	Method of Shipment FEDERAL EXPRESS			Bill of Lading/Air Bill No. 4533-2127- 3859		
Protocol				<u>x</u>	Related COC (if any)			PRE 010418-00116-001		
POSSIBLE SAN Are acid preserv Are other known ** ** **	POSSIBLE SAMPLE HAZARDS/REMARKS Are acid preserved samples DOT hazardous per 40 CFR Part 136.3 Table II? YES orKO Are other known hazardous substances present? YES or NO ** ** **	SMARKS dous per 40 CFR present? YES	Part 136.3 T	able II? YI	SS 00(M)	SCREENING REQUIRED	S PECIAL INSTRUCTIONS	ONS Hold Time		
Bottle No.	Customer	Matrix	Date	Time	Location	Container (size/type/quantity)		Sample Analysis		Preservative;
01D0711-	T551A04182001-	FILTER	04/18/	7:00 AM	T551 A	1-FILTER / N/A	NR01A001 (Berylliun	NR01A001 (Beryllium Filter Analysis) [Routine]	[e]	N/A
001.001	100-00									None
01D0711- 002.001	T551A04182001- 05-002	FILTER	2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Berylliun	NR01A001 (Beryllium Filter Analysis) [Routine]	[e]	N/A None
01D0711- 003.001	T551A04182001- 05-003	FILTER	2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Berylliun	NR01A001 (Beryllium Filter Analysis) [Routine]	[e]	N/A None
01D0711- 004.001	T551A04182001- 05-004	FILTER	04/18/ 2001	7:00 AM	T551 A	1-FILTER / N/A	NR01A001 (Berylliun	NR01A001 (Beryllium Filter Analysis) [Routine]		N/A None
01D0711- 005.001	T551A04182001- 05-005	FILTER	2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Berylliun	NR01A001 (Beryllium Filter Analysis) [Routine]	<u>@</u>	N/A None
01D0711- 006.001	T551A04182001- 05-006	FILTER	04/18/ 2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Berylliun	NR01A001 (Beryllium Filter Analysis) [Routine]	<u>@</u>	N/A None
01D0711- 007.001	T551A04182001- 05-007	FILTER	04/18/ 2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium	NR01A001 (Beryllium Filter Analysis) [Routine]		N/A None
Relingvisited By	11-5 (AM)	Daye/Time 1.01 //500	Received By:	X	ة م	Date/Time Relinquished By:	d By:	Date/Time Received By:	4. 6/15/01	Date/Time / 10:30
Relinquished BX)	/Date/Time	Received By:		Da	Date/Time Relinquished By	d By:	Date/Time Bectived By:		ĺ
Relinquished By:		Date/Time	Received By:		Da	Date/Time Relinquished By:	d By.	Date/Time Received By:		Date/Time
Relinquished By:		Date/Time	Received By:		Da	Date/Time Relinquished By:	d By:	Date/Time Received By:		Date/Time
FINAL SAMPLE DISPOSITION	\vdash	Disposal Method (e.g., returned to customer, disposed of per lab proce	stomer, dispos	ed of per lab	procedure, used in analytical process)	d process)	Disposed By		Date/Time	

Commodo	Commodore Advanced Sciences			CHAIN OF		Y/SAMPL	OUSTODY/SAMPLE ANALYSIS REQUEST		c.o.c.# 01D	01D0711#001
									Page 2	of <u>2</u>
RIN 01D0711			Ö	Contact/Requestor JOHNSEN, SHEI	stor SHELLY		Telephone No. 6401			
Bottle No.	Customer Number	Matrix	Date	Time	Location	Container (size/type/quantity)	Samp	Sample Analysis		Preservative; Packing
01D0711- 008.001	T551A04182001- 05-008	FILTER	04/18/ 2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	Analysis) [Routine]		N/A None
01D0711- 009.001	T551A04182001- 05-009	FILTER	2001	7:00 AM	T551 A	1-FILTER / N/A	NR01A001 (Beryllium Filter Analysis) [Routine]	Analysis) [Routine]		N/A None
01D0711- 010.001	T551A04182001- 05-010	FILTER	2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	Analysis) [Routine]		N/A None
			W. Commonwealth			-				
						Joh!				
				· · · · · · · ·	TYC 3			·		
1	1.0									
Relinguished By:	HS CAP	Date/Time 1-01/1500	Received By:	16/2	Da	Date/Time Relinquished By:	d By: Date/Time	Received By:	5/15/01	Date/Time
Relinquished By	-	/ Date/Time		ı.·	Da	Date/Time Relinquisher	d By: Date/Time	Received By:		Date/Time
Relinquished By:		Date/Time	Received By:		Da	Date/Time Relinquished By:	d By: Date/Time	lime Received By:	-	Date/Time
Relinquished By:		Date/Time	Received By:		Da	Date/Time Relinquished By:	d By: Date/Time	lime Received By:		Date/Time
FINAL SAMPLE DISPOSITION	\vdash	(e.g., retumed to cı	ustomer, dispo	sed of per lab pr	Disposal Method (e.g., returned to customer, disposed of per lab procedure, used in analytical process)	l process)	Disposed By		Date/Time	

NARRATIVE

The laboratory did not encounter any problems or questions associated with the receipt of samples into the laboratory. All samples identified on the Chain-of-Custody (COC) form were received and accepted in good condition with tamper-resistant seals intact. (1.d, 4.b, 4.e)

Whatman 4 or Whatman 41 swipe samples were submitted in this project and analyzed for the identification and quantitation of beryllium in accordance with Line Item Code (LIC), NR01A001. The methodology does not define any required specific holding times for the compound on the sampling media. Results of the sample analyses were generated and reported by the specified turn-around time (TAT). (4.f, 5.6, 5.f, 6.b.7)

The laboratory preparation of samples in this project was performed following laboratory Standard Operating Procedure (SOP), IH M-1.02, Revision N. Additional references to the preparation technique of this sample type are addressed in EPA Method, 3015A and CEM Application Procedure, MS-9. The samples were prepared using the CEM Microwave Sample Preparation System, Model MDS 2000. The instrumental sample analysis for these samples follows SOP, IH M-1.04, Revision N, which covers the analytical procedure outlined in OSHA method, ID-125G. Start-up and calibration of the Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) instrument are performed following manufacturer's instructions and are addressed in SOP, IH M-1.03, Revision N. (5.a)

Results of all calibration verifications (initial and continuing), method blanks (calibration and matrix), Laboratory Control Samples (LCSs), Laboratory Control Sample Duplicates (LCDs) and internal QA/QC program monitoring standards for this analytical batch are within acceptable limits as specified in Statement of Work (SOW) modules, GR01-B.3 and NR01-A. (5.c, 5.d.2, 5.d.3, 6.b.2-6)

The internal quality control procedures for statistical monitoring of analytical data to ensure the production of quality results with continuing high validity are addressed in the JMTC IH Laboratory Quality Assurance Manual, Section 10.0. Results of all method-specific QC assessments for this analytical batch are within acceptable limits in accordance with SOW modules, GR01-B.3 and NR01-A. (5.c. 6.b.1)

The Instrument Detection Limit (IDL) has been determined to be 0.00028 mg/ml using the ICP-AES instrument, Perkin Elmer - Optima model 3000DV. Method Detection Limit (MDL) determinations are performed in accordance with the EPA Method contained in 40 CFR Part 136, Appendix B. The MDL for beryllium on the Whatman swipe matrix by ICP-AES has been determined to be 0.012 mg/swipe. These values meet the required detection limits for SOW module, NR01-A. (5.d.1) The sample batch did not require any sample re-analyses due to dilutions or any anomalies. (5.d) The qualifiers used for the results page are "U" for non-detect and "J" for levels greater than the MDL, but less than the Reporting Limit.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate N. 056) and continues to rate proficient within the Proficiency Analytical Testing (PAT) program. This program is designed for laboratories involved in analyzing samples taken in the workplace environment. The JMTC IH Analytical Laboratory is also accredited in the Environmental Lead Laboratory Accreditation Program (ELLAP), which is recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP). This program accredits and monitors performance of laboratories testing for lead in environmental samples such as paint, soil, dust wipes and air. (5.a)

54

May 17, 2001

Laboratory Report ID 01051503

Laboratory Name: Johns Manville IH Lab Subcontract Number: KH800188

01D0711 RIN:

Andre Gonzalez EFD41712 Requestor: P.O./Charge Code:

{ }	
SUMMA	
RESULTS ST	
QUICK R	

Customer	Laboratory	Requested	Reporting	O	CONCENTRATION		Air Vol	
Number	ID Number	Analysis	Limit	Back Section	Front Section	Total	Q Time	Concentration
T551A04182001-05-001 01051503-001 Beryllium	01051503-001	Beryllium	0.1 µg		respiration to the state of the	< 0.1 µg	n	
T551A04182001-05-002 01051503-002 Beryllium	01051503-002	Beryllium	0.1 µg			< 0.1 μg	n	1,000
T551A04182001-05-003 01051503-003 Beryllium	01051503-003	Beryllium	0.1 µg	170		<0.1 µg	n	
T551A04182001-05-004 01051503-004 Beryllium	01051503-004	Beryllium	0.1µg			< 0.1 µg	Ď	200
T551A04182001-05-005 01051503-005 Beryllium	01051503-005	Beryllium	01 µg			< 0.1 µg	Ω	
T551A04182001-05-006 01051503-006 Beryllium	01051503-006	Beryllium	0.1 µg			< 0.1 µg	Ŋ	
T551A04182001-05-007 01051503-007 Beryllium	01051503-007	Beryllium	0.1 μg			< 0.1 µg	Ŋ	
T551A04182001-05-008 01051503-008 Beryllium	01051503-008	Beryllium	0.1μg	340		< 0.1 µg	n	
T551A04182001-05-009 01051503-009 Beryllium	01051503-009	Beryllium	0.1 µg			<0.1 µg	D	
T551A04182001-05-010 01051503-010 Beryllium	01051503-010	Beryllium	0.1 µg			<0.1 µg	n	



Page 6 of 7

May 17, 2001

Johns Manville IH Lab Laboratory Report ID 01051503 Laboratory Name: Johns Many

Subcontract Number: KH800188 RIN: 01D0711

Andre Gonzalez EFD41712 Requestor: P.O./Charge Code:

QC RESULTS SUMMARY

QC Parameter	QC Item Type	Compound	Expected	Actual	Percent	QC Sample ID	Date	Instrument
			Recovery	Recovery	Recovery		Analyzed	Run
Preparation Blank	PB1	Beryllium	< 0.1 μg		N/A		5/16/01	QU010516-B
Matrix Blank	MB1	Beryllium	< 0.1 µg		N/A		5/16/01	QU010516-B
Matrix Blank Spike	MS1	Beryllium	5.0 µg	5.17 µg	103.4		5/16/01	QU010516-B
Laboratory Control Sample	TC1	Beryllium	10.0 μg	9.90 ид	66	QC01050310	5/16/01	QU010516-B
Laboratory Control Duplicate	LC1a	Beryllium	10.0 дg	10.0 µg	100	QC01050310	5/16/01	QU010516-B

RFP F 3791.32 (7/95) Formerly RF-47530

הטכתאy Flats Environmental Technology Site

80402-0464 Golden, CO

Safety and Hygiene Chain of Custody Record and Analysis Request

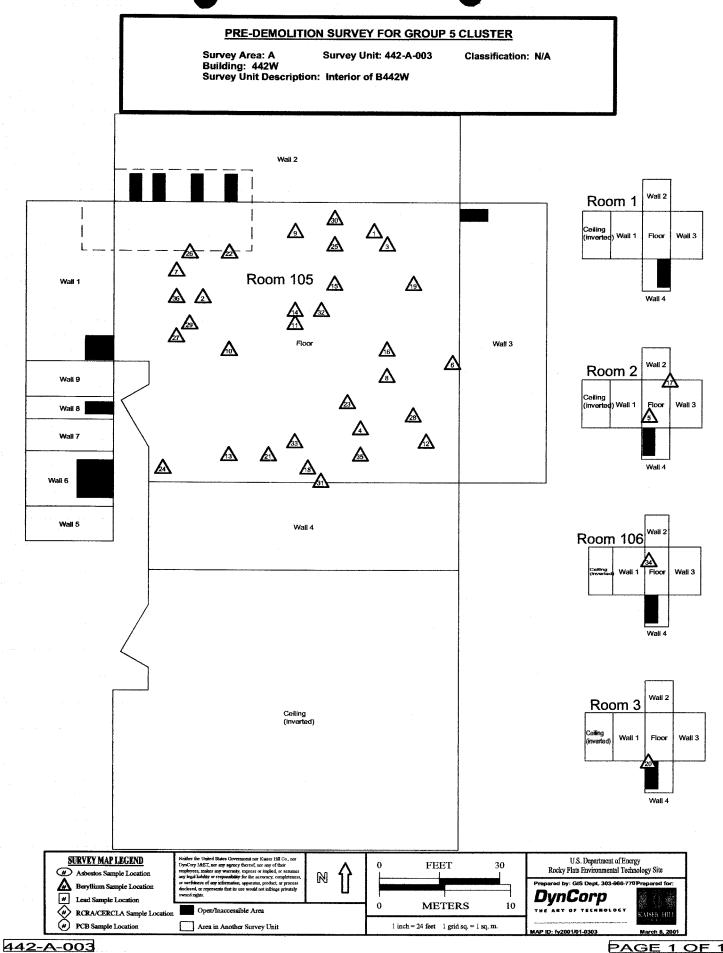
Page , of Number とる Lab Time/Date Time/Date Time/Date Time/Date ☐ Unbroken 110010 10/21 1271 Date: 4/16/21 Comments: 117 | 1 7.6.6.1.7.1 REMARKS ì 100 Received by Received by Received by Received by Condition of Seal: Broken Seal# (Release #) VA 01 A 501 Signature: Bldg/Ext:1/6/x6222 Personal Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by $\mathbf{G} \wedge \mathbf{G}$ Industrial Hygiene Sample MEDIA Other Asbestos Samples Other Analysis Request Rush SAMPLE TIME/ Rush 24 Rush 00010 01110 Time/Date Fime/Date Time/Date Time/Date VOLUME Standard Service Standard liters Service Title: THA **ANALYZE FOR** Received by Received by Received by Received by P.O.#/Release: 🔑 ನಿರ್ವಾಗ್ನ Course Berylling Report and Billing Instruction Name of Originator: 4. Consults Report To: Verbal To: 500 See 20-10068140 25-010 7551 A. Dully 1821 05 - 206 TSS1/4-04/82001.05-007 7551A-0412201. 25. 024 \$ 416.20.100.05.40 15514 DUIGHON 1-05-002 200-20-150(8)20- A1227 Fax To: 15514-04183001-05-001 Bill To: SAMPLE NUMBER Bldg/Y/M/D/P#/S# Relinquished by Relinquished by Relinquished by **Aeth** quished by Lab: 20.10058170 15514-04134001 \mathcal{S} Kaiser-Hill DynCorp **RMRS** SSOC WSI

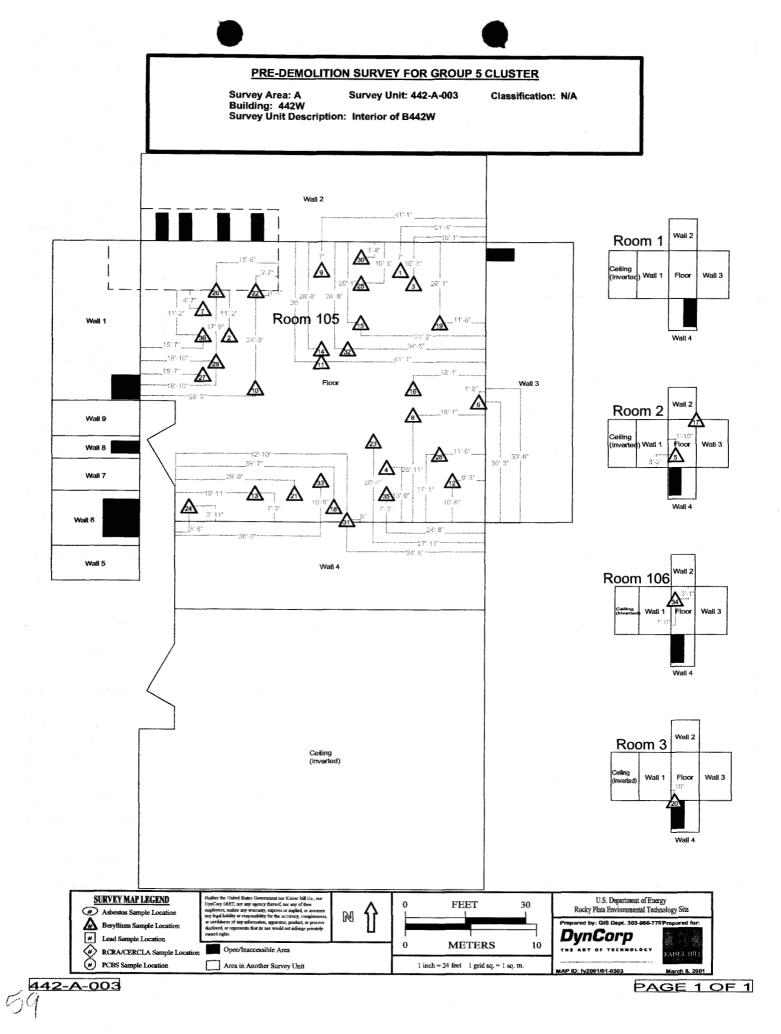
Blue - Originator

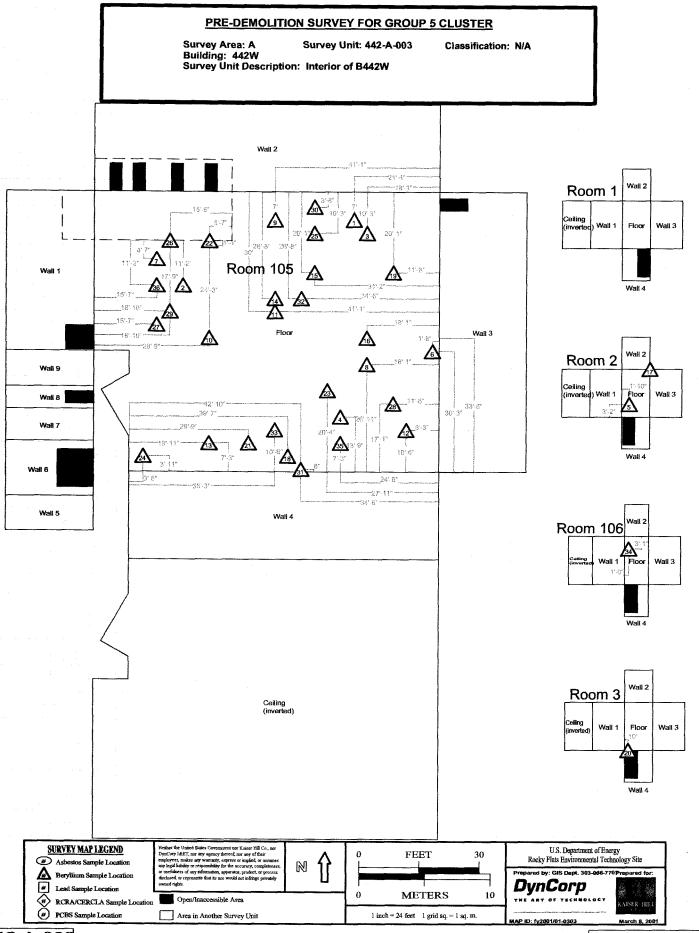
Green - Sample Custodian

Yellow - Lab Copy

White - Return to Originator







442-A-003

PAGE 1 OF 1

April 2, 2001

Laboratory Report ID: 01032806

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS

RIN:

800188SX6 01D0632

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

QUICK RESULTS SUMMARY

Line Item Code:	NR01A001	Reporting Limit:	0.1 μg
Sample Matrix:	WIPE	Date Received:	03/28/01
Analytical Method:	OSHA ID-125G	Date Analyzed:	03/30/01

Customer	Laboratory	Requested	C	CONCENTRAT	TION			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID_
442W-03142001-05-031	01032806-047	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-032	01032806-048	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-033	01032806-049	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-034	01032806-050	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-035	01032806-051	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-036	01032806-052	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-037	01032806-053	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-038	01032806-054	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-039	01032806-055	Beryllium			< 0.1 μg	TR1	U	7440-41-7

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April 2, 2001

Laboratory Report ID: 01032903

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS 800188SX6

RIN:

01D0654

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

QUICK RESULTS SUMMARY

Line Item Code:NR01A001Reporting Limit:0.1 μgSample Matrix:WIPEDate Received:03/29/01Analytical Method:OSHA ID-125GDate Analyzed:04/02/01

Customer	Laboratory	Requested	C	ONCENTRA	ΓΙΟΝ			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID
442W-03282001-05-001	01032903-001	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03282001-05-002	01032903-002	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03282001-05 - 003	01032903-003	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03282001-05-004	01032903-004	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-001	01032903-005	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-002	01032903-006	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-003	01032903-007	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-004	01032903-008	Bervllium			< 0.1 นอ	TR1	U	7440-41-7



Rocky Flats Environmental Technology Site Golden, CO 80402-0464 Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95) Formerly RF-47530

0100632

Name of Originator: A (a)	Guarda Title:			Bldg/Ext:	t:	Date:	Page 2 of) jo
SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME	SAMPLE TIME/	MEDIA A	Personal Area Bulk	REMARKS	Lab Number	er
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Relinquished by	Received by	Time/Date	9	Relinquished by	ed by	Received by	Time/Date	
Report and Billing Instruction	struction		Analysis Request	Request		Seal# (Release #)		
			ndustrial Hy	Industrial Hygiene Sample		Condition of Seal:	Inhroken	
RMRS 🔲 Fax To:		K. K.	ع و				Olipionell	
SSOC D Report To:		Service	Achaetos	Ashestos Samples	***************************************	Signature:		
WSI D P M #/Releaser =	T V A COLL .db							
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- White	White - Return to Originator	Yellow - Lab Copy		Green - Sample Custodian	le Custodian	Blue - Originator		

RFP F"3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

0100010

Page 🏅 of 🖨 Lab Number Time/Date Time/Date Time/Date Time/Date Unbroken Date: 3/20/9/ REMARKS 0 Received by Received by Received by Green - Sample Custodian Blue - Originator Received by Condition of Seal: Seal# (Release #) WAOIA Signature:___Comments: Personal Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by Bldg/Ext: $\mathbf{G} \wedge \mathbf{G}$ Industrial Hygiene Sample Other MEDIA Asbestos Samples Other Analysis Request Rush SAMPLE TIME/ 24 Rush Time/Date Time/Date Time/Date Time/Ďaté Standard Service VOLUME Standard Service liters Title: **ANALYZE FOR** Received by Received by Received by Received by Report and Billing Instruction P.O.#/Release: 0 13.7 120 300 Report To: Verbal To: Name of Originator: A Bill To: Fax To: Relinquished by Relinquished by Relinquished by Réjinguished by SAMPLE NUMBER Bldg/Y/M/D/P#/S# 2042001-05 24.7W. OR4X031.05 442 W - WS142001-05 40 20 straight -ICERDIZE MINT HOUSENSO MINO 121- 214201 -160 LUTO 14 2001. 1007 1150 STILLADD! -1201-150 -150 1000 E 10025 143 W-07142001 142 W. 2811 2003. 14361-2814001-1002000 - 17175 Kaiser-Hill DynCorp **RMRS** SSOC WSI

Yellow - Lab Copy White - Return to Originator

RFP F 3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

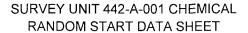
Page<∕ of 🥎 Lab Number Time/Date Time/Date Time/Date Time/Date ☐ Unbroken REMARKS Date: 💢 Received by Green - Sample Custodian Blue - Originator Received by Received by Received by Condition of Seal: Seal# (Release #) 1008 Signature: Comments: 1000 Bldg/Ext: //c// * 672 Personal Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by \Box Industrial Hygiene Sample Other MEDIA Asbestos Samples Other Analysis Request Rush Rush SAMPLE TIME/ Yellow - Lab Copy □ 24 Rush Time/Date Fime/Date Time/Date Time/Date Standard Service Standard Service VOLUME liters White - Return to Originator Title: ANALYZE FOR Received by Received by Received by Received by 1 Report and Billing Instruction P.O.#/Release: 75 256 033 570 250 120 Report To: Verbal To: Fax To: Bill To: Name of Originator: No. - Late works - Late Late 24 34. 02 14 1001:03 1/1 Relinquished by Relinquished by Relinquished by SAMPLE NUMBER Bldg/Y/M/D/P#/S# Relinquished by Lab: -4961-07142001-2814 2001 -141 W. 2714 2001 141 H- 37 11/2 23 15 4 × 20 Kaiser-Hill DynCorp **RMRS** SSOC WSI



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	1	32	10	2	1	38	20
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	1	4	10	7	1	28	10
	1	10	17		1	2	7
	1	5	46		1	12.	15
	1	2	20		1	35	8
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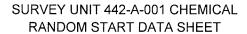
Page 1



Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
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	1	23	18		1	35	44
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C-N/A = UNPAINTED CEILING X-N/A = > NUMBER OF SAMPLES REQUIRED





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	1	32	26		1	31	22
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	1	48	30		1	17	6
	1	15	19		1	15	16
	1	16	28		1	35	43
	1	51	43		1	53	28
	1	46	43		1	1	17
	1	11	27		11	26	8
	1	53	30		1	2	17
	1	41	14		1	19	9
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	1	35	54		1	27	5
	1	2	12		1	2	21
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	1	45	55		1	52	11
13	1	28	47		1	32	9
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	1	31	5		1	48	24
	1	19	26		1	16	0
	1	40	34		1	32	55
	1	48	25		1	44	9
14	1	20	47		1	47	48
	1	36	44		1	51	4
	1	37	28		1	4	43
	1	16	31		1	36	20
	1	51	24		1	36	14
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	1	48	35	,	1	25	10
,	1	49	39		1	30	17
	1	13	22		1	43	45
	1	33	17		1	16	23
	1	27	22		1	46	49
	. 1	20	3		1	46	0
15	1	44	9		1	24	1
	1	17	20		1	15	20
	1	16	5		1	13	23
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C-N/A = UNPAINTED CEILING X-N/A = > NUMBER OF SAMPLES REQUIRED



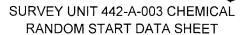
SURVEY UNIT 442-A-003 CHEMICAL RANDOM START DATA SHEET

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4	1	47	10	33	1	22	31
5	1	7	32		1	46	12
6	1	15	16	34	1	36	48
	1	55	5	35	1	27	30
7	1	23	20		1	38	39
	1	48	14	36	1	16	55
8	11	49	25	3	1	29	46
9	11	26	54		1	3	35
10	1	47	19		11	10	13
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	1	4	9		1	34	6
	1	50	27		1	47	28
	1	15	16		1	47	6
	11	53	2		1	49	49
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14	1	26	25		1	24	52
	11	54	16	5	1	49	33
15	1	25	43	6	1	34	37
16	1	15	4		1	10	1
17	1	6	27		1	43	17
	1	37	0		1	36	3
18	1	34	15		11	37	15
19	1	31	43		1	37	41
20	11	48	6		1	5	48
21	1	20	30	7	1	13	44
22	1	38	39		1 .	2	53
23	1	26	34		1	42	54
	1	37	38	1	11	31	27
, ,	11	43	17		1	38	14
	1	1	12	8	1	29	36
24	1	28	54	9	1	22	47
25	1	25	46	10	1	17	38
	1	40	26		11	5	45
26	11	14	47		1	6	41
27	1	13	39		1	27	26
<u>28</u>	1	30	22		1	52	5
29	1	25	50	4.	1	30	52
	1	3	21	11	1	22.	40

LEGEND:

C-N/A = UNPAINTED CEILING X-N/A = > NUMBER OF SAMPLES REQUIRED





Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
	1	7	48	22	1	17	46
	1	7	31		1	24	54
12	1	32	31		1	29	19
	1	46	24		1	6	3
	1	2	47		1	19	20
	1	36	49		1	5	23
	1	10	54		1	44	14
. ,	1	40	40		1	40	40
	1	46	29		1	47	8
	1	28	22		1	8	4
	1	51	47		1	12	2
	1	18	26		1	53	13
13	1	17	30		1	11	16
	1	44	24		1	34	17
	1	45	16	24	1	12	29
14	1	22	41		1	35	32
	1	37	15	28	1	31.	33
	1	4	51	29	1	14	40
	1	41	12		1	14	15
16	1	29	38		1	39	55
	1	36	19		1	42	20
17	1	51	36		1	25	25
	1	50	29	31	1	24	28
	1	51	21		1	29	15
	1	35	4		1	23	55
	1	37	52	32	1	- 24	41
18	1	23	29		1	37	54
	1	49	29		1	19	17
	1	22	7		1	2	40
	1	46	22		1	6	33
	1	53	32		1	26	21
	1	4	14		1	17	16
	1	42	25	34	1	49	22
	1	47	25		1	53	7
	1	19	8	36	1	13	42
	1	53	29		1	9	28
	1	24	51		1	4	52
	1	18	51		1	25	53
	1	3	28		1	38	23
	1	4	44		1	46	21
	1	36	26		1	25	34
	1	35	30		1	26	12
	1	10	21		1	35	55
	1	0	32		1	38	25
	1	43	18		1	7	33

C-N/A = UNPAINTED CEILING X-N/A = > NUMBER OF SAMPLES REQUIRED





COVER PAGE

April 2, 2001

Rocky Flats Environmental Technology Site Ms. Shelly Johnsen P.O. Box 464, Building 881

P.O. Box 464, Building 881 Golden, CO 80402-0464 10100 W. Ute Avenue (80127) P.O. Box 625005 Littleton, CO 80162-5005

Johns Manville Corporation

Littleton, CO 80162-5005 303 978 2000

Laboratory Report ID: 01032903 **Laboratory Name:** JMTC IH

JMTC IH Analytical Laboratory

Laboratory Code:

JMANS

Subcontract Number: RIN:

800188SX6

Requestor:

01D0654

P.O./Charge Code:

EDD30120

Andre Gonzalez

Dear Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Bottle Number(s)	Customer Number(s)	Laboratory ID Number	Line Item Code	Sample Matrix
Beryllium	01D0654-001.001	442W-03282001-05-001	01032903-001	NR01A001	WIPE
Beryllium	01D0654-002.001	442W-03282001-05-002	01032903-002	NR01A001	WIPE
Beryllium	01D0654-003.001	442W-03282001-05-003	01032903-003	NR01A001	WIPE
Beryllium	01D0654-004.001	442W-03282001-05-004	01032903-004	NR01A001	WIPE
Beryllium	01D0654-005.001	442L-03282001-05-001	01032903-005	NR01A001	WIPE
Beryllium	01D0654-006.001	442L-03282001-05-002	01032903-006	NR01A001	WIPE
Beryllium	01D0654-007.001	442L-03282001-05-003	01032903-007	NR01A001	WIPE
Beryllium	01D0654-008.001	442L-03282001-05-004	01032903-008	NR01A001	WIPE

Comments: No problem were encountered with sample receiving and sample analysis

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner	Date
Industrial Hygiene Project Manager	

April 2, 2001

Laboratory Report ID: 01032903

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS 800188SX6

RIN:

01D0654

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

QUICK RESULTS SUMMARY

Line Item Code:	NR01A001	Reporting Limit:	0.1 μg
Sample Matrix:	WIPE	Date Received:	03/29/01
Analytical Method:	OSHA ID-125G	Date Analyzed:	04/02/01

Customer	Laboratory	Requested	C	ONCENTRA	ΓΙΟΝ			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID
442W-03282001-05-001	01032903-001	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03282001-05-002	01032903-002	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03282001-05-003	01032903-003	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03282001-05-004	01032903-004	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-001	01032903-005	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-002	01032903-006	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-003	01032903-007	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03282001-05-004	01032903-008	Beryllium			< 0.1 µg	TR1	U	7440-41-7

Rocky Flats Environmental Technology Site Golden, CO 80402-0464 Safety and Hygiene Chain of Custody Record and Analysis Request

4590010

Page / of /	Lab Number			Time/Date	Time/Date	Time/Date	Time/Date	1011.13	_1	FY/PIC/			
Date: 3/2,8/0/	REMARKS	W 201 4 00 1	7	Received by	Received by	Received by	Received by	Seal# (Release #)	Condition of Seal:	$\frac{N}{N} \frac{\partial}{\partial t}$	Comments:		Blue - Originator
Bldg/Ext://レメレンフ	P Personal A Area B Bulk			Relinquished by	Relinquished by	Relinquished by	Relinquished by	Se		Sign	 		Green - Sample Custodian Bl
Bldg	ME			Relinqu	Relinqu	Relinqu	Relinqu	Analysis Request	Industrial Hygiene Sample	h Other	Asbestos samples	2 Other Rush	Green - Sa
	E SAMPLE TIME/			Time/Date	Time/Date	Time/Date	Time/Date	Analys	Industrial		· Ш	24 Rush	Yellow - Lab Copy
2447	VOLUME	11 th		Time	Time	Time	Time		D D	Standard		Standard Service	
Name of Originator: Andr. Conzeles Title: Thes	ANALYZE FOR	Zunyll in	<i>**</i>	Received by	Received by	Received by	Received by	uction	A Guzzer	4 (201162	K 14 E DD 7 (2) 3 U	7.74	White - Return to Originator
jinator: Andre	JMBER /P#/S#	100-50-100 100-50-100 100-50-100 100-50-100 100-50-100 100-50-100 100-50-100 100-50-100		hed by	hed by	hed by	hed by	Report and Billing Instruction	Verbal To:	Report To:	Bill To: P.O.#/Release: Æ	Lab:	White - F
Name of Oriç	SAMPLE NUMBER Bldg/Y/M/D/P#/S#	-20-10062620-44444444444444444444444444444444		Relinquished by	Relinquished by	Relinquished by	Relinquished by	Re	Kaiser-Hill X		Dyncorp	73.	
				·	#								١.

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

0100052

ofc Number Lab Time/Date Time/Date Time/Date Time/Date Page ☐ Unbroken 11.7 Date: 1/2,/21 REMARKS Received by Received by Comments: 1110 Received by Received by ☐ Broken armend Condition of Seal: Seal# (Release #) LCOVICE 14 Signature: CHT. Personal Area Bulk Bldg/Ext: //k/ Relinquished by Relinquished by Relinquished by Relinquished by e A Industrial Hygiene Sample MEDIA Other Asbestos Samples Other **Analysis Request** Rush Rush SAMPLE TIME/ 24 Rush 177 | Jen 1977 | Time/Date Time/Date Time/Date Time/Date VOLUME Standard Service Standard liters Service Title: IH_p **ANALYZE FOR** (portaliza Received by Received by P.O.#/Release: £ 00 32110 Received by Received (b) するには Ser. 10012642 19 Report and Billing Instruction 7 Name of Originator: Andre 500-50-1002H80-78AH -0714 2001 - 05 - 006 HITC. TUTE - 0314 ABOL - 05 - 007 4416-05142001-05-004 4426-0814 2001-05-00 8 Report To: 4426-03142001-05-009 4426-08143001-05-013 Verbal To: 010-50-100CH20-77FH 4426-25142001-05-017 4416-05142001-05-001 100-50-10014150-1CM 410-20-10084180-3641 500-50-1000M120-71744 110-50 100 ENTO-114 210-20-1001112 4416 - 0314 2001-05 - 016 Fax To: Bill To: SAMPLE NUMBER Bidg/Y/M/D/P#/S# Relinquished by Relinquished by Rélinquished by Relinquished by Lab: 図口 **(aiser-Hill** DynCorp **RMRS** SSOC WSI

Blue - Originator

Green - Sample Custodian

Yellow - Lab Copy

White - Return to Originator

Rocky Flats Environmental Technology Site Golden, CO 80402-0464 Safety and Hygiene Chain of Custody Record and Analysis Request

0100632

Page 2 of cy	Lab																	Time/Date	Time/Date	Time/Date	Time/Date	-		Unbroken					
Date:	REMARKS	17/10 A 001																Received by	Received by	Received by	Received by	Seal# (Release #)			Sionature:	Comments:		THE PROPERTY OF THE PROPERTY O	
	MEDIA A Area Bulk			The state of the s											0.00			Relinquished by	Relinquished by	Relinquished by	Relinquished by	Analysis Request	Industrial Hygiene Sample		Other	Asbestos Samples		2 OtherRush	
- I	VOLUME SAMPLE. liters TIME/											Transcention and the second se						Time/Date	Time/Date	Time/Date	Time/Date	Analysis	Industrial Hy		Standard Rush Service		_	Standard 24 Service Rush Ru	
racte Title:	ANALYZE FOR	86	>														Ç	Received by	Received	Received by	Received by	ruction					e: £ 000 500 2	W	
Name of Originator: 1). (2017.62	SAMPLE NUMBER Bldg/Y/M/D/P#/S#	166 - 50 - 100(F180 - M (HE	442 11 28143021-05-003	3	400 - 20 - 1005 WILL - WOLLY	JASH - 25142001-05-005	4474-08142005- 00L	TOO SO HOOKHING HERE	442W 68143001.05. 007	44341-08W2801-05- 039	447W-05143801-05-013	110 - 30-100CH130-WCHL	442 W- 05143001-05 - 21)	443 W. OSICIONO1.05 . 017	410 - 50 -1 008 FISO - MERIT	442W-03142001-05 215	442W-08142001-05-016	Relinquished by	Relinquished by	Relinquished by	Relinquished by	Report and Billing Instruction	Kaiser-Hill A Verhal To:	K 🗆		<u>e</u>		75 Lab:	111.

Rocky Flats Environmental Technology Site Golden, CO 80402-0464 Safety and Hygiene Chain of Custody Record and Analysis Request

Page ∑ of 4	Lab																Time/Date	Time/Date	Time/Date	Time/Date			Unbroken					
Date: 3/20/01	REMARKS	100 RIDAY														>	Received by	Received by T	Received by T	Received by	Seal# (Release #)		☐ Broken ☐ (Signature:	Comments:			Blue - Originator
Bldg/Ext: //6 / 6727	MEDIA A Area B Bulk													-			Relinquished by	Relinquished by	Relinquished by	Relinquished by		ſ				Other		Green - Sample Custodian Blu
1101	VOLUME SAMPLE ME liters TIME/													A LATE OF THE PROPERTY OF THE			Time/Date	Time/Date	Time/Date Rel	Time/Date Rel	Analysis Request	Industrial Hygiene Sample	Standard Bush		Asbestos Samples	<u></u> ~	Rush Rush	Yellow - Lab Copy Green
farm. Lu Title: 7	YZE FOR	76														1	Received by //	rd fa	Received by	Received by	struction						\dashv	White - Return to Originator Yo
Name of Originator: Anh (2013)	SAMPLE NUMBER Bidg/Y/M/D/P#/S#	. 30 -100 PKIZO	1.03/42/901-05	110 - 20143651-05 - 015	W-08142001-	2W-03142001-05-	tto - 50 1 secuto dens	. 20.	500 . 50 -100 KN20-19 CAH	442 N. 2742001- 05 - 034	44.241-03142001-05-05-	840 - 20 - 100 KH 20 - 140 mg	441/2-02142011-05-024	44.14- 08142821-05- 050	120 - 30 - 100 HIZO -175 AF	120 - 10 - 1008 F 120 - HI HK	Relinguished by	Relinquished by	Relinquished by	Relinquished by	Report and Billing Instruction	Kaiser-Hill 🙀 Verbal To:			DynCorp Bill To:	WSI D P.O.#/Release:	/ <i>(</i> /	White

Rocky Flats Environmental Technology Site Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

0100050

Pageく of タ Number Lab Time/Date Time/Date Time/Date Time/Date ☐ Unbroken Date: 3/20/01 REMARKS Received by Received by Received by Received by Condition of Seal: Green - Sample Custodian Blue - Originator UR01 4021 Seal# (Release #) Comments: Signature: X4723 Personal Area Bulk Bldg/Ext: //🌽 Relinquished by Relinquished by Relinquished by Relinquished by W A Industrial Hygiene Sample MEDIA Other, Asbestos Samples Other Analysis Request 2 Rush SAMPLE Rush TIME/ Yellow - Lab Copy Rush 710 2776 Time/Date Time/Date Time/Date Time/Date VOLUME Standard Service Standard Service 744 liters Title: White - Return to Originator ANALYZE FOR Received by Received by Received by Received by 1001 8 10011ch Report and Billing Instruction P.O.#/Release: 225 250 770 WIL 550 279 030 Report To: Verbal To: Fax To: 141 M- 27.4 JOOL - 25. Bill To: Name of Originator: 20 - 100 LUSO - WILLY SAMPLE NUMBER BIdg/Y/M/D/P#/S# 30 - 1625 x 16 14 1 05 20 - 100 AF130 WEYE Relinguished by Relinquished by --- Relinquished by Relinquished by Lab: 124 D. J. 744.2 23 HID STIYADDE 100 8 120 Kaiser-Hill DynCorp **RMRS** SSOC

Laboratory Report ID: 01032806

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number:

JMANS 800188SX6

RIN:

01D0632

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

QUICK RESULTS SUMMARY

Line Item Code:NR01A001Reporting Limit:0.1 μgSample Matrix:WIPEDate Received:03/28/01Analytical Method:OSHA ID-125GDate Analyzed:03/30/01

Customer	Laboratory	Requested	C	ONCENTRAT	TION			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID
442W-03142001-05-008	01032806-024	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-009	01032806-025	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-010	01032806-026	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-011	01032806-027	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-012	01032806-028	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-013	01032806-029	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-014	01032806-030	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-015	01032806-031	Beryllium			< 0.1 μg	TR1	Ü	7440-41-7
442W-03142001-05-016	01032806-032	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-017	01032806-033	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-018	01032806-034	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-019	01032806-035	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-020	01032806-036	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-021	01032806-037	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-022	01032806-038	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-023	01032806-039	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-024	01032806-040	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-025	01032806-041	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-026	01032806-042	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-027	01032806-043	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-028	01032806-044	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-029	01032806-045	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-030	01032806-046	Beryllium			< 0.1 μg	TRI	U	7440-41-7

Laboratory Report ID: 01032806

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: **JMANS**

800188SX6

RIN: Requestor: 01D0632

P.O./Charge Code:

Andre Gonzalez EDD30120

QUICK RESULTS SUMMARY

 $0.1~\mu g$ NR01A001 Line Item Code: Reporting Limit: WIPE 03/28/01 Sample Matrix: Date Received: OSHA ID-125G Analytical Method: 03/30/01 Date Analyzed:

Customer	Laboratory	Requested	C	CONCENTRAT	ΓΙΟΝ			Constituent	
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID	
442W-03142001-05-031	01032806-047	Beryllium			< 0.1 μg	TR1	U	7440-41-7	**************************************
442W-03142001-05-032	01032806-048	Beryllium			< 0.1 μg	TR1	U	7440-41-7	
442W-03142001-05-033	01032806-049	Beryllium			< 0.1 μg	TR1	U	7440-41-7	
442W-03142001-05-034	01032806-050	Beryllium			< 0.1 μg	TR1	U	7440-41-7	
442W-03142001-05-035	01032806-051	Beryllium			< 0.1 μg	TR1	U	7440-41-7	
442W-03142001-05-036	01032806-052	Beryllium			< 0.1 μg	TRI	U	7440-41-7	
442W-03142001-05-037	01032806-053	Beryllium		1	< 0.1 μg	TR1	U	7440-41-7	FB
442W-03142001-05-038	01032806-054	Beryllium			< 0.1 μg	TR1	U	7440-41-7	FB
442W-03142001-05-039	01032806-055	Beryllium			< 0.1 μg	TR1	U	7440-41-7	FI

Laboratory Report ID: 01032806

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS

RIN:

800188SX6 01D0632

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

QUICK RESULTS SUMMARY

Line Item Code:NR01A001Reporting Limit:0.1 μgSample Matrix:WIPEDate Received:03/28/01Analytical Method:OSHA ID-125GDate Analyzed:03/30/01

Customer	Laboratory	Requested	C	ONCENTRAT	TION			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID
442L-03142001-05-001	01032806-001	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-002	01032806-002	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-003	01032806-003	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-004	01032806-004	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-005	01032806-005	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-006	01032806-006	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-007	01032806-007	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-008	01032806-008	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-009	01032806-009	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442L-03142001-05-010	01032806-010	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-011	01032806-011	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-012	01032806-012	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442L-03142001-05-013	01032806-013	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-014	01032806-014	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-015	01032806-015	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442L-03142001-05-016	01032806-016	Beryllium			< 0.1 µg	TRI	U	7440-41-7
442W-03142001-05-001.	01032806-017	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-002	01032806-018	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-003	01032806-019	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-004	01032806-020	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-005	01032806-021	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-006	01032806-022	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-007	01032806-023	Beryllium			< 0.1 μg	TR1	U	7440-41-7

Laboratory Report ID: 01032806

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS 800188SX6

RIN:

01D0632

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

QUICK RESULTS SUMMARY

Line Item Code:	NR01A001	Reporting Limit:	0.1 μg
Sample Matrix:	WIPE	Date Received:	03/28/01
Analytical Method:	OSHA ID-125G	Date Analyzed:	03/30/01

Customer	Laboratory	Requested	C	ONCENTRAT	TION			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID
442W-03142001-05-008	01032806-024	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-009	01032806-025	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-010	01032806-026	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-011	01032806-027	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-012	01032806-028	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-013	01032806-029	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-014	01032806-030	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-015	01032806-031	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-016	01032806-032	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-017	01032806-033	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-018	01032806-034	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-019	01032806-035	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-020	01032806-036	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-021	01032806-037	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-022	01032806-038	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-023	01032806-039	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-024	01032806-040	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-025	01032806-041	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-026	01032806-042	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-027	01032806-043	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001 - 05-028	01032806-044	Beryllium			< 0.1 μg	TRI	U	7440-41-7
442W-03142001-05-029	01032806-045	Beryllium			< 0.1 μg	TR1	U	7440-41-7
442W-03142001-05-030	01032806-046	Beryllium			< 0.1 μg	TRI	U	7440-41-7



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May 4, 2001

Rocky Flats Environmental Technology Site Ms Shelly Johnson P.O. Box 464, Building 881 Golden, CO 80402-0464

Johns Manville Corporation 10100 W. Ute Avenue (80127) P.O. Box 025005 Littleton, CO 50162-5005 303 978 2000

Laboratory Report ID:

01042710 Laboratory Name:

Laboratory Code:

JMTC IH Analytical Laboratory **JMANS**

Subcontract Number:

800188SX6

Requestor:

01D0752 Andre Gonzalez

P.O./Charge Code:

EEC50021

Doar Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AlHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

Scope of Work:

Requeste Analysi	s Numb					ample Matrix
Berylliu	n 01D0752-	001.001 442L-042	62001-05-001 0104	42710-001 NF	R01A001 W	IPE
Berylliu	n 01D0752-	002,001 442L-042	62001-05-002 0104	42710-002 NR	R03 A001 W	IPE
Berylliu	n 01D0752-	003.001 442K-042	162001-05-003 0104	42710-003 NF	ROIA001 W	TPE
Berylliu	n 01D0752-	004.001 442L-042	62001-05-004 0104	42710-004 NF	R01A001 W	IPE
Borylliu	n 01D0752•	005,001 442L-042	162001-05-005 0104	42710-005 NF	R01A001 W	IPE

Comments: No problem were encountered with sample receiving and sample analysis.

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modern, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner

Industrial Hygiene Project Manager

May 4, 2001

Laboratory Report ID: 01042710

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code:

JMANS

Subcontract Number:

80018\$SX6

RIN: Requestor; 01D0732 Andre Gonzalez

P.O./Charge Code;

EEC50021

QUICK RESULTS SUMMARY

NR01A001 Line Item Code: Reporting Limit: 0.1 µg WIPE 04/27/01 Sample Matrix: Date Received: OSHA ID-125G Analytical Method: 05/03/01 Date Analyzed:

Customer	Laboratory	Requested	C	ONCENTRAT	ION			Constituent
Number	ID Number	Analysis	Backup	Main	Total	r	Q	ID
442L-04262001-05-001	01042710-001	Beryllium			< 0.1 µg	TRI	U	7440-41-7
442L-04262001-05-002	01042710-002	Beryllium			< 0.1 μg	TRI	Ų	7440-41-7
442L-04262001-05-003	01042710-003	Beryllium		Party personnel site till blede at the factor of the facto	< 0.1 μg	TR1	ע	7440-41-7
442L-04262001-05-004	01042710-004	Berylliun) 40° PE'A 14' ' 24 pa - April - A pril - April - Apri		< 0.1 us	TRI	U	7440-41-7
442L-04262001-05-005	01042710-005	Beryllium	I A Trans as proposed for his from the half for the		< 0.) µg	TRI	U	7440-41-7

Commodure.	Commodore Advanced Sciences, Inc.		•	CHAIN		DY/SAMPI	OF CUSTODY/SAMPLE ANALYSIS REQUEST Due; 6]	OLOWATIO EST Due; 61	01D0752#001	1001
	RFETS						,	14/01	Page 1 of	-1
Surplers) ANDRE GONZALEZ	WZALEZ		- 1	(finetiate)	Contact/Requester JOHNS EN, SHELLY		Tyleghone No.	Ne.		
NEN 01DX0752	752			8	capting Origin		Purchase (Purchase Order/Charge Code EED60123		
Preject Title 0.4421. RE SMEARS	MEARS			3	Logsbook No.		Tee Chest No.		Tem p.	
Tellal Jo	Johns Mauville			2	afted of Shipment PEDERAL EXPRESS		Bill of Lading	Bill of Lading/Air Bill No.		
Fresowol				à	Related CDC ((Fary)		PRE	TATIO der		
POSSEREE SA Are acid preser Are ather know	POSSIBLE SAMPLE HAZARDSREMARKS Are soid preserved samples DOT lazardous per 40 CFR Pert 136,3 Table II? YES Are other known basendous substances present? YES or NO	EMARKS About per 40 CFF present YES of	2 Part 136.3	rable II? YE	S er NO	SCREENING	NG SPECIAL INSTRUCTIONS RelaTime	dd Time		
** **						ח			·	
Bottle No.	Christomers	Nosition	apro	Time	Location	Cantries (Garlins)		Sariple Analysis	Presertative;	<u></u>
01D0752- 001.001	442L-04262001- 06-001	FLTER	04/26/ 2001	7:00 AM	4421	1-FILTER/ N.M.	NR01A001 (Beryllium Filter Analysis) [Routine]	vnalysis) [Routine]	NIA	
01D0752- 002.001	4421-04262C01- 06-802	PILTER	2001 2001	MA CO:7	4421	1.FILTER/N/A	NR01A001 (Berylfum Filter Analysis) [Routine]	vnatysis) [Routine]	N.Y.A. Mane	
01DQ752- 003.001	4421-04262001- 05-003	FILTER	2001	7:00 AM	4425	1-FILTERINIA	NR31A001 (Beryllium Filter Analysis) [Routine]	nalysis) [Routine]	N.A. None	
0100752- 004.001	442L-04262991- 05-904	FILTER	2001	7:00 AM	4421.	1FILTERINA	NR01A001 (Beryllium Filter Analysis) [Koutine]	nalysis; [Routine]	N/A None	
01D0752- 005.001	4421-04262001- 05-005	HLTER	2001	7:00 AM	442	1-FELTER! N/A	NR01A001 (Berylkum Filter Analysis) (Rouline)	nalysis) (Rouline)	NA	
					90	1098-1				
								} 1		
Relinquished By: Congress	10 15 h	Delectine (SO)	Remoder.	£,	Ã	DateTisse Refirepulshed By:	Content of the conten	± /.	ωμα *//27/0/ 10:	Datol Time
:{@polepuburjay		DaterTime	Received By		ě	DataTime Relinquished By:	ret By: Date/Tran	and Carlotte and Day:	1	DateTime
R-Singuished My:		Dreffme	Received By:		Dec	Date(Time Rebranished By:	ed By; Date/Tene	Fire Roseived By.	Aved	DateTime
Refinquished By:		DakeTime	Received By		D	Datellins Refugnished By:	el By: Bac/fine	re Roceivel By:	DatoTime	1
FINAL SAMPLE DISPOSITION		(Cg, actemed to ce	staties, dispos	sd of per lab p	Disposal Acta of (e.g., externed to extenter, disposed of per lab procedure, used in marificial process)	(8500zi)	Disposed By		Date/Time	T



IHISR_SURFACE_SAMPLE

Date: 05/09/2001

RIN: 01D0752

Sample Number/Type: 442L-04262001-05-001

Hygienist: ANDRE GONZALEZ

Page:

1 of 1

Location Info: ROOM 101, SOUTHEAST CORNER, TOP OF LIGHT FIXTURE

Room No: N/A

Analyte: BERYLLIUM AND BE COMPOUNDS (AS BE)

Concentration: < 0.1000 UG/100CM2

Sample Number/Type: 442L-04262001-05-002

Hygienist: ANDRE GONZALEZ

Location Info: ROOM 101, SOUTHWEST CORNER, TOP OF LIGHT FIXTURE

Room No: N/A

Analyte: BERYLLIUM AND BE COMPOUNDS (AS BE)

Concentration: < 0.1000 _ UG/100CM2

Sample Number/Type: 442L-04262001-05-003

WIPE

WIPE

Hygienist: ANDRE GONZALEZ

Location Info: ROOM 101, WEST END, TOP OF LIGHT FIXTURE

Room No: N/A

Analyte: BERYLLIUM AND BE COMPOUNDS (AS BE)

Concentration: < 0.1000 _ UG/100CM2

Sample Number/Type: 442L-04262001-05-004

WIPE

Hygienist: ANDRE GONZALEZ

Location Info: ROOM 101, NORHTWEST CORNER, TOP OF LIGHT FIXTURE

Room No: N/A

Analyte: BERYLLIUM AND BE COMPOUNDS (AS BE)

Concentration: < 0.1000 _ UG/100CM2

Sample Number/Type: 442L-04262001-05-005

WIPE

Hygienist: ANDRE GONZALEZ

Location Info: ROOM 101, NORTHEAST CORNER, TOP OF LIGHT FIXTURE

Room No: N/A

Analyte: BERYLLIUM AND BE COMPOUNDS (AS BE)

Concentration: < 0.1000 _ UG/100CM2

DOES NOT CONTAIN USE ONLY INFORMATION

RFETS		CHAIN OF C	N) F C	OTSI	I I I M A S/AC	HSTODY/SAMDIE ANALYSIS DEGINERALY	C.O.C.#	01D0752#1
IIIdustii	muastrial nyglene						L ANALISIS RECOES!	Page:	1 of 1
RIN 01D0752		0	ontact	Contact/Requestor ANDRE GONZALEZ	or ZALEZ		Telephone No. MSIN 3039666727	FAX	
Bottle No.	Customer	Matrix	Date	Time	Location	Northern Contraction			Preservative
			_			io i pe contaniei	Sample Analysis	•	Packing
	442L-04262001-05-001				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BF)		A/A
									None
	442L-04262001-05-002				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)	-	N/A
	4421 04262004 OF 002		_						None
	442L-0426200 I-03-003				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)		N/A
	442L-04262001-05-004				442L	1-FILTER N/A	BERYLLIIM AND BE COMPOUNDS (ACTOR)		N/A
			L				CONTRACTOR (AS BE)		None
	4421-04262001-05-005				4421	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)		N/A
							(AS SC)		None

Helk Hostine

should to with contacts of Rin # 0100753

Are acid preserved samples DOT Hazardous per 40 CFR Part 136,3 Table II? YES of NO Are other known hazardous substances present?

	Date/Time	Disposed By:	(ssec	ab procedur, used in process)	irn to customer, per l	DISPOSITION	DISPOSITION
Date/Time	Received By:	Date/Time	Relinquished By:	Date/ I ime	received by.		
				T)-1-0	Received Rv.	Date/Time	Relinquished By:
Date/Time	Date/Time Received By:	Date/Time	Relinquished By:	Date/Time	Necelved by:		
					Received By:	Date/Time	Relinquished By:
Date/Time	Received By:	Date/Time	Kelinquished By:	Date/ Lime			
				ł	Received By:	, Date/Time	Relinquished By:
Date/Time	Received By:	Date/Time	relinquisned by:	1231 10967	(Brown	who the	[mol. [
					Date/Time Received Ry:		Relippuished By:

FOOTHILLS ENVIRONMENTAL, INC.

Industrial Hygiene, Safety, & Environmental Services

2801 Golde

2801 Youngfield St., Ste. 300 Golden, CO 80401 Phone: (303) 275-3470 Fax: (720) 489-2832

\mathscr{RE}

CLIENT NAME:

LOCATIONE

PROJECT NUMBER:	Sample Location	South well, Room 105	East 1011, Rose 105			Q .	Ran, 101	(Row, 101	Ser. 11 (0)	Rown 101						
SAMPLED BY:	Sample Description	Piller A , Sect Fun 38-001.	on top of bloc papel - horz.		of willer next to butter board - will vert	to of fit west well	window sill at cust end	Wigdow sill at northiest cons.	window sill at HOWEST ANT COINE	or topot light fixter		2.2	•	ż		
SAN	Sample Type	159	450	45 B	le fit	6 Ft.	t3 h	477	11/1	28 Ft	786+	78 Ct	78 64	78 71.		
SAMPLE DATE:	Sample Number	100-50-100282 50-M244	700	500	400	100 -50-10078700-12nh	too	700	HOD	447L-04242001-05-001	200-	200-	h00-	500-		

FOOTHILLS ENVIRONMENTAL, INC.

Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300

Golden, CO 80401 Phone: (303) 275-3470 Fax: (720) 489-2832

MESTOS BULK. SAMPLING FORM

LOCATION:

CLIENT NAME:

-7 :3 2:2 1) > W - Li 2002 Krish Will incot will Sample Location A004 103 101 Acres 101 De 11 (0) £ 452 PROJECT NUMBER: Rach - wall vert - 18 Ve. J. 1120-10,00 4012. Aron town piller pext to butter Sound nort beert cust end Window sill at east end panel west wall + らしょ trun Window sill 11.'s megrin # 0.1191 Sample Description +0 Piller top SAMPLED BY: 12 **†** 20 Sample Type e de Ca 6 ft. 43 17 13 t 1 h 71 6 13. 300 100 ty & ナナツ 401 ion N 500 00 8 700 OUL CO? SET 100 -50-100282 50 - MThh 427 -4421-05232001-05-2. 10 18 10 - 7 CM Sample Number SAMPLE DATE:



COVER PAGE

April 2, 2001

Rocky Flats Environmental Technology Site Ms. Shelly Johnsen P.O. Box 464, Building 881 Golden, CO 80402-0464 Laboratory Report ID:

01032806

Laboratory Name:

JMTC IH Analytical Laboratory

Johns Manville Corporation 10100 W. Ute Avenue (80127)

P.O. Box 625005 Littleton, CO 80162-5005

303 978 2000

Laboratory Code:

JMANS

Subcontract Number: RIN:

800188SX6

Requestor:

01D0632

P.O./Charge Code:

EDD30120

Andre Gonzalez

Dear Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested	Bottle	Customer	Laboratory	Line Item	Sample
Analysis	Number(s)	Number(s)	ID Number	Code	Matrix
Beryllium	01D0632-001.001	442L-03142001-05-001	01032806-001	NR01A001	WIPE
Beryllium	01D0632-002.001	442L-03142001-05-002	01032806-002	NR01A001	WIPE
Beryllium	01D0632-003.001	442L-03142001-05-003	01032806-003	NR01A001	WIPE
Beryllium	01D0632-004.001	442L-03142001-05-004	01032806-004	NR01A001	WIPE
Beryllium	01D0632-005.001	442L-03142001-05-005	01032806-005	NR01A001	WIPE
Beryllium	01D0632-006.001	442L-03142001-05-006	01032806-006	NR01A001	WIPE
Beryllium	01D0632-007.001	442L-03142001-05-007	01032806-007	NR01A001	WIPE
Beryllium	01D0632-008.001	442L-03142001-05-008	01032806-008	NR01A001	WIPE
Beryllium	01D0632-009.001	442L-03142001-05-009	01032806-009	NR01A001	WIPE
Beryllium	01D0632-010.001	442L-03142001-05-010	01032806-010	NR01A001	WIPE
Beryllium	01D0632-011.001	442L-03142001-05-011	01032806-011	NR01A001	WIPE
Beryllium	01D0632-012.001	442L-03142001-05-012	01032806-012	NR01A001	WIPE
Beryllium	01D0632-013.001	442L-03142001-05-013	01032806-013	NR01A001	WIPE
Beryllium	01D0632-014.001	442L-03142001-05-014	01032806-014	NR01A001	WIPE
Beryllium	01D0632-015.001	442L-03142001-05-015	01032806-015	NR01A001	WIPE)
Beryllium	01D0632-016.001	442L-03142001-05-016	01032806-016	NR01A001	WIPÉ &
Beryllium	01D0632-017.001	442W-03142001-05-001	01032806-017	NR01A001	WIPE
Beryllium	01D0632-018.001	442W-03142001-05-002	01032806-018	NR01A001	WIPE
Beryllium	01D0632-019.001	442W-03142001-05-003	01032806-019	NR01A001	WIPE
Beryllium	01D0632-020.001	442W-03142001-05-004	01032806-020	NR01A001	WIPE
Beryllium	01D0632-021.001	442W-03142001-05-005	01032806-021	NR01A001	WIPE
Beryllium	01D0632-022.001	442W-03142001-05-006	01032806-022	NR01A001	WIPE
Beryllium	01D0632-023.001	442W-03142001-05-007	01032806-023	NR01A001	WIPE
Beryllium	01D0632-024.001	442W-03142001-05-008	01032806-024	NR01A001	WIPE
Beryllium	01D0632-025.001	442W-03142001-05-009	01032806-025	NR01A001	WIPE
Beryllium	01D0632-026.001	442W-03142001-05-010	01032806-026	NR01A001	WIPE
Beryllium	01D0632-027.001	442W-03142001-05-011	01032806-027	NR01A001	WIPE

Laboratory Report ID:

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS 800188SX6

01032806

RIN:

01D0632

Requestor:

Andre Gonzalez

P.O./Charge Code:

EDD30120

Scope of Work: (cont.)

Requested Analysis	Bottle Number(s)	Customer Number(s)	Laboratory ID Number	Line Item Code	Sample Matrix
Beryllium	01D0632-028.001	442W-03142001-05-012	01032806-028	NR01A001	WIPE
Beryllium	01D0632-029.001	442W-03142001-05-013	01032806-029	NR01A001	WIPE
Beryllium	01D0632-030.001	442W-03142001-05-014	01032806-030	NR01A001	WIPE
Beryllium	01D0632-031.001	442W-03142001-05-015	01032806-031	NR01A001	WIPE
Beryllium	01D0632-032.001	442W-03142001-05-016	01032806-032	NR01A001	WIPE
Beryllium	01D0632-033.001	442W-03142001-05-017	01032806-033	NR01A001	WIPE
Beryllium	01D0632-034.001	442W-03142001-05-018	01032806-034	NR01A001	WIPE
Beryllium	01D0632-035.001	442W-03142001-05-019	01032806-035	NR01A001	WIPE
Beryllium	01D0632-036.001	442W-03142001-05-020	01032806-036	NR01A001	WIPE
Beryllium	01D0632-037.001	442W-03142001-05-021	01032806-037	NR01A001	WIPE
Beryllium	01D0632-038.001	442W-03142001-05-022	01032806-038	NR01A001	WIPE
Beryllium	01D0632-039.001	442W-03142001-05-023	01032806-039	NR01A001	WIPE
Beryllium	01D0632-040.001	442W-03142001-05-024	01032806-040	NR01A001	WIPE
Beryllium	01D0632-041.001	442W-03142001-05-025	01032806-041	NR01A001	WIPE
Beryllium	01D0632-042.001	442W-03142001-05-026	01032806-042	NR01A001	WIPE
Beryllium	01D0632-043.001	442W-03142001-05-027	01032806-043	NR01A001	WIPE
Beryllium	01D0632-044.001	442W-03142001-05-028	01032806-044	NR01A001	WIPE
Beryllium	01D0632-045.001	442W-03142001-05-029	01032806-045	NR01A001	WIPE
Beryllium	01D0632-046.001	442W-03142001-05-030	01032806-046	NR01A001	WIPE
Beryllium	01D0632-047.001	442W-03142001-05-031	01032806-047	NR01A001	WIPE
Beryllium	01D0632-048.001	442W-03142001-05-032	01032806-048	NR01A001	WIPE
Beryllium	01D0632-049.001	442W-03142001-05-033	01032806-049	NR01A001	WIPE
Beryllium	01D0632-050.001	442W-03142001-05-034	01032806-050	NR01A001	WIPE
Beryllium	01D0632-051.001	442W-03142001-05-035	01032806-051	NR01A001	WIPE
Beryllium	01D0632-052.001	442W-03142001-05-036	01032806-052	NR01A001	WIPE
Beryllium	01D0632-053.001	442W-03142001-05-037	01032806-053	NR01A001	WIPE
Beryllium	01D0632-054.001	442W-03142001-05-038	01032806-054	NR01A001	WIPE
Beryllium	01D0632-055.001	442W-03142001-05-039	01032806-055	NR01A001	WIPE

Comments: No problem were encountered with sample receiving and sample analysis

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner	Date
Industrial Hygiene Project Manager	



Rocky Flats Environmental Technology Site

CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

Group 8 CLOSURE PROJECT (Buildings T886B and T886C)

REVISION 0

June 25, 2001

Prepared by:	David Babbs, Industrial Hygiene	_Date: <u>6/25/6</u> /
Prepared by:	Kimberly Myers, Environmental Compliance	_Date:
Reviewed by:	Steve Luker, Quality Assurance	_Date: 6/26/01
Reviewed by:	Duane Parsons, Characterization Coordinator	_Date: <u>6/74/</u> 0
Approved by:	Kent Dorr, KH Closure Project Manager	_Date: 42401

CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

BUILDING(s): Group 8 (Buildings T886B and T886C)

Notes:

* This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.

* PDSP Data Quality Objectives were used to develop this characterization package.

Instructions:

- 1. Verify characterization activities are on the Plan-of-the-Day (POD).
- 2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
- 3. Verify personnel have appropriate training for the applicable tasks they will be performing.
- 4. Comply with RWP requirements, if applicable.
- 5. Comply with JHA and facility PPE requirements, as applicable.
- 6. Inform the Facility Manager, or designee prior to starting characterization activities.
- 7. Follow applicable characterization and sampling procedures.
- 8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
- 9. Prior to any intrusive or invasive survey or sampling activities, contact IH and Radiological Operations to determine requirements and/or restrictions during sampling activities.
- 10. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
- 11. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.



ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
T886B	10	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as sheet vinyl flooring, backing, and adhesive, acoustical ceiling tiles, and baseboards with adhesive will be sampled for asbestos.
T886C	5	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as sheet vinyl flooring, backing, and adhesive, acoustical ceiling tiles, and baseboards with adhesive will be sampled for asbestos.
Total Samples:	15	The exact sample numbers and locations cannot be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

BERYLLIUM		
Sample Location	Number of Samples (smears)	Sample location and justification/rational
T886B	5 – Biased	There is no documented supporting data or process history that proves beryllium was not used or stored in this building. Therefore, five biased samples will be obtained.
T886C	5 – Biased	There is no documented supporting data or process history that proves beryllium was not used or stored in this building. Therefore, five biased samples will be obtained.
Total Samples:	10	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

LEAD		
Sample Location	Number of Samples	Sample location and justification/rational
T886B and T886C	0	Lead sampling is not required in the Group 8. The only potential for a lead hazard would be in the paint. All paint will remain a part of the infrastructure during demolition and/or disposal, and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
Total Samples:	0	

RCRA/CERCLA C	ONSTITIUE	NTS
Sample Location	Number of Samples	Sample location and justification/rational
T886B	0	Based on the Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns, no hazardous activities resulting in a release of RCRA or CERCLA constituents occurred in these buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings contain components that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and lead acid batteries. Care will need to be taken to ensure these wastes are managed properly.
T886C	0	Based on the Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns, no hazardous activities resulting in a release of RCRA or CERCLA constituents occurred in these buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings contain components that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and lead acid batteries. Care will need to be taken to ensure these wastes are managed properly.
Total Samples:	0	

PCBs*		
Sample Location	Number of Samples	Sample location and justification/rational
T886B and T886C	0	These two buildings were installed in 1991. The Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns of these trailers indicate PCB contamination in the structural debris is not probable. Therefore, no sampling is required. These buildings will be disposed of as sanitary waste or sold for re-use.
Total Samples:	0	Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities, such as light ballasts. Care will need to be taken to ensure these wastes are managed properly.

^{*} PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

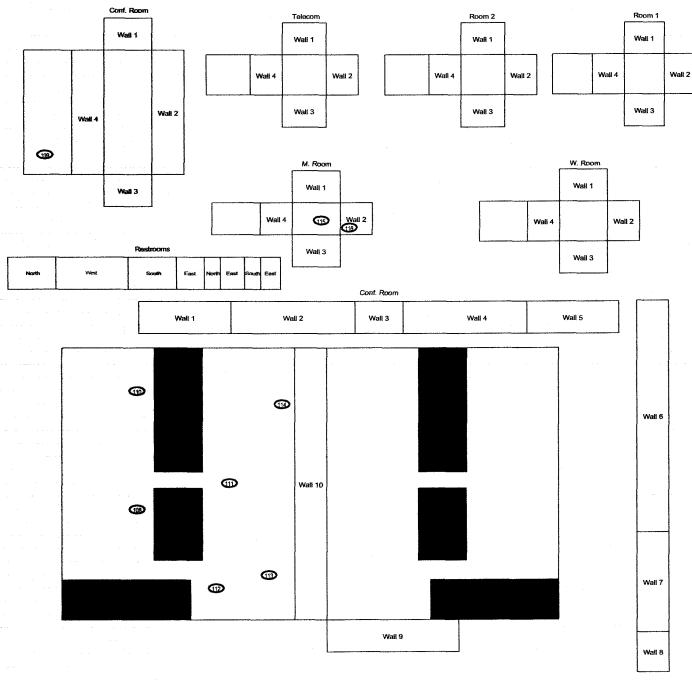
PRE-DEMOLITION SURVEY

Survey Area: A Survey Unit: GR8-A-001 Classi Building: T886B Survey Unit Description: Interior & Exterior of T886B Survey Unit: GR8-A-001 Classification: 3

Total Area: 1928 sq. m. Total Floor Area: 366 sq. m.

T886B Interior

T886B-06072001-315-108 Thru 116



SURVEY MAP LEGEND Asbestos Sample Location	Neither the United States Government nor Knizer Hill Co., nor DynCorp L&ET, nor any agency thezeof, nor any of their employees, makes any warranty, express or implied, or assume	0 FEET 30	U.S. Department of Energy Rocky Flats Environmental Technology Site
Beryllium Sample Location Beryllium Sample Location	my feed inhibity or responsibility for the accuracy, completen as, or usefulness of any information, apparatus, product, or process disclored, or represents that its use would not infining privately owned rights:		Prepared by: GIS Dept. 383-968-770 Prepared for: DynCorp
RCRA/CERCLA Sample Location	Open/Inaccessible Area	0 METERS 10	THE ART OF TECHNOLOGY KAISER HALL
* PCB Sample Location	Area in Another Survey Unit	l inch = 24 fect l grid sq. = 1 sq. m.	MAP ID: fy2001/01-9555 May 9, 2001

GR8-A-001

PAGE 1 OF ZI

PRE-DEMOLITION SURVEY

Survey Area: B

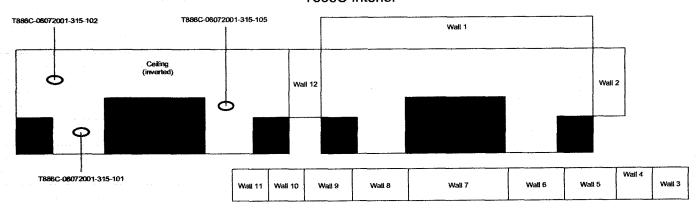
Survey Unit: GR8-B-002 Classification: 3

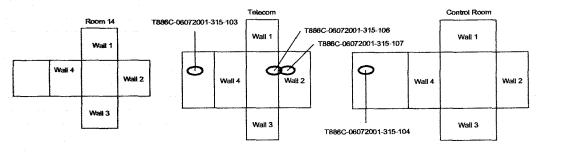
Building: T886C Survey Unit Description: Interior & Exterior of T886C

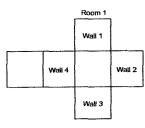
Total Area: 1072 sq. m.

Total Floor Area: 164 sq. m.

T886C Interior







T886C Exterior

Roof

	West Wall	South Wall	East Wall
1			
			L

North Wali

and the second second							
SURVEY MAP LEGEND Asbestos Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp IdeET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assume	, 174	Λ	0	FEET	30	l Rocky Fl
Beryllium Sample Location Lead Sample Location	any legal liability or responsibility for the accuracy, completen or usefilness of any information, apparatus, product, or proce- disclosed, or represents that its use would not infinge privately owned rights.	เมน	U				DynC
RCRA/CERCLA Sample Location	Open/Inaccessible Area			0	METERS	10	THE ART O
# PCB Sample Location	Area in Another Survey Unit			l in	ch = 24 feet I grid sq. =	1 sq. m.	MAP ID: TV2001

U.S. Department of Energy lats Environmental Technology Site Sorp

GR8-B-002

PAGE 1 OF 1

DataQA

Page 1 of 2

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RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NYLAP Acordised Laboratory # 181896

TDH Licensed Laboratory # 30-0136

VOLUME	
OMPOSITION BY	
PERCENTAGE C	
plin bulk analysis, percentage composition by volume	
HEI. FI	

T886 B&C BULK ASBESTOS

Client Project Description:

PLM Short Report, Bulk June 12, 2001 3-5 Day Date Samples Received: Analysis Type: Turnaround:

Turnaround:	3-5 Day					Analyst: LW	
Client	Lab					Non	
Number		∢ Þ7	Physical	Part		Aspestos	Components
		阳丘	Description		Mineral Visyel	Com	
T886C060720013C5-101	EM 548552	23 A	White fran ceiling tife	200	ďΝ		40
T886C66072001315-£02	EM 548553	3 A	White has ceiling tile	88	GN.	09	9
T886C96072801315-103	EM 548554	4 4	White Aan ceiling tile	300		09	07
T886C06072001315-104	EM 548555	5 A	White stan ceiling tite	100	MD	09	40
T886 C06072001315-105	EM 548556	- A	White fan ceiling tile	199	QN.	0.59	40
7886C06072001315-106	EM 548557	7 A	Tan Avlute linoleum	100	GZ.	20	(%)
TBB6C06872001345-107	EM 548558	κ Β Α	Yellow math: Tan cove base	3	an an	0 0	100
7886 C06072001315-108	EM 548559	<u>۷</u>	White han ceiling tile	200	a z	89	04
T886C06072001315-109	EM 548560	4 0	White han ceiling tile	08	Q X	8	0
T8B6C0697209R315-110	EM 548561	¥ F	White han exime the	100	QN.	8	40

ND = None Detected TR = Trace, < 119 Vistal Estimate

Trem-Act = Tremolie-Actinude

Data QA

Page 2 of 2

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Ascretiled Laboratory # 101896 7DR Licensed Laboratory # 31-0134

TABLE L. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES 71917-1	Kaiger-Hill Analytical Services Division	01D0942/EED60122	7886 B&C BULK ASBESTOS	Juxe 12, 2001	PLM Short Report, Bulk	3-5 Day
RES Job Number:	Client	Client Project Number / P.O.:	Client Project Description:	Date Samples Received:	Analysis Type:	Turnaround:

PLM Short Report, Bulk 3-5 Day

Turnaround:	3-5 Day					Assilve: LW	
Cilon Sample Number	Lab ID Number	14722	Physical Description	Sub Part (%)	Mara	Asbe Fi Compos	Non- Fibrous Components (%)
T886C06072081315-111	EM 548562	<u> </u>	White lan ceiling the	130	ND	GS GS	0 ≱
T886C0607204131S-112	EM 548563	<′	White itan coiling tile	8	Œ.	09	407
T886C0607200131S-113	EM 548564	₹	White stan ceiting tile	100	ÜN	6 9	9
1886Cu6072001315-114	EM 548565	<u> </u>	White han exiling tile	100	GN.	09	9
T386C6672001315-115	EM 548566	₹ #	Yellow mastic Tan cove base	3	ON ON	0.0	160
1886CO6872001325-116	EM 548567	¥	Tan Arbide linoleum whan mastic	8	Q2	15	288

Trem-Act = Tremoble-Actinotte

 $ND \approx Nona$ Defeated $TR \approx Trace, < 156 Venal Estimate$

Rocky Flats Environmental Technology Site

RFP F 3791.32 (7/95) Eximerly RF-47530

ğ Number Lab Time/Date Time/Date Time/Date Time/Date Page Unbroken Bldg/Ext: 7/174/47/7 Date: 6/8/0/ REMARKS 43% 402 BODY Received by Received by Received by Received by Green - Sample Custodian Blue - Originator Condition of Seal: fout Count all Seal# (Release #) Comments: Signature:_ from Truce Personal Area Bulk Relinquished by Relinquished by Relinquished by Relinquished by Industrial Hygiene Sample Other MEDIA Asbestos Samples XX Other Analysis Request Rush Rush SAMPLE TIME/ \$ 24 Rush ime/Date Time/Date Time/Date Time/Date Standard Service Standard Service IHES VOLUME liters さ Title: ANALYZE FOR P.O.#/Release: **EED60122** Received by Received by Received by Received by Keering 、力をある mar! Name of Originator: Javio Da335 Report and Billing Instruction PAGC-06072001-315-107 886B-06072501-315-108 7886B-06072001-315-116 886B-06072001-315-115 886C-06072001-315-106 T886B-06072001-315-113 BB6B-06072004-315-114 T886C-06072001-315-103 T886B-06072001-315-112 886C-06072001-315-104 7886C-06072001-315-105 7886C-06072001-315-102 7886B-06072001-315-111 Report To: Verbal To: 886C-06072001-315-101 Fax To: Bill To: BBCB-06072001-315-886B-0x072001-315-Relinquished by SAMPLE NUMBER BIdg/Y/M/D/P#/S# Relinewished by Relinquished by Relinquished by 2550 VI Lab: Kaiser-Hill DynCorp **RMRS** SSOC WSI

Yellow - Lab Copy White - Return to Originator

Sampler(s) Sampler(s) Sampler(s) BAVID BABBS RESHALL Transport Transpor		Contesters)	7,		rfaci/Reamyter		
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e acid preserved simples DOT kazardous per 43 CFR, e odest known kazardous substantes persent? YES of the same as a second of	136.37 N	1			35) K**	
Customer Number 7886C080720013		fakte (If YE	Q	SUPERING REQUIRED	SPECIAL INSTRUCTIO *00615-0916-03 & 91061 08 = 70.3%	BRIC PORT COUNT ALL SAMPLES PROM TRACE TO <	ROM TRACE TO
T886C060720013	Date	Time	Location	Conflictor			,
	05/07/	7:00 86/	TROS	1.NA / N/A /	Marph Carlynis	dysis	Pathing
	2001				IH028004 (offsiteAsbestos-bulk PLM N9002) [Routine]	PLM N9002) [Routine]	NA
01D3942- Tenecuec720013 IH	08/D7/	TON AM	1	1. EUR / EUG 24			None
15-102	2007	3	3		IHOZB004 (offsiteAsbestos-bulk PLM N9002) [Rouline]	PLM N9002) [Rouline]	¥ _N
01D0942- T886C060720013 IK	12000	7-00 AM	T.Boo. 1	1-UA 2 BSA 24			Note
15-103				The same of the sa	JH02B004 (offsiteAsbestos-bulk PLM N9302) (Routine)	PLM N9002) [Routine]	NA NA
01D0942- T886C060720013 IH	1/20/90	7.00 ALI	Tabe	1.NA / 858 14			None
15-15					HO2BOOM (offsite Asbestos-bulk PLM N9032) [Rowline]	PLM N9052) [Rowline]	A'A
01D0942- T685C060720013 #H	06/07/	770 011	1	A NA C NIA A			None
15-105			3 6041		H02B004 (offsiteAsbestos-bulk PLM N9D02) [Routine]	LM N9002) [Routine]	N.A.
01D0942- T865C060720913 IH	06/07/	7:00 AM	TABLE C	1-NA / N/A /			None
15-106			-		H02B004 (offstleAsbestos-bulk PLM N9002) (Routine)	LM N9002) [Routine]	\$
01D0942- T886C060720013 #H	12000	700 418	1	S. NA / MIA			None
15-107			2000	***************************************	IH028004 (offsiteAsbestos-bulk PLM N9002) [Routine]	LM N9002) [Routine]	N/A
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009.001	15-109	E	2007	7:00 AM	T886B	THAINIA!	IHOZB004 (offsite Asbestos-bulk PLM N9002) (Routine)	k PLM N9002) [Routine]	KPA
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010.001	15-150		1002		2 200		IH029004 (offsiteAsbestos-buik PLM N9002) [Routine]	x PLM N9002) [Routine]	NA
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KES' ENA' SEBA'



FAX COVER SHEET PRELIMINARY DATA REPORTS

ROM:	SHELLY JOHNSEN
HONE:	(303) 966-6401
AX:	(303) 966-8345
O:	DAVID BALOOS
AX:	6678
HONE:	
UMBER	OF PAGES, INCLUDING COVER SHEET:
lease con	tact if the fax is not received in its entir
	(phone number)

If the accompanying data is stamped preliminary it is because the final data package has not been received and validated or verified. Until the data is validated or verified it must be considered preliminary. Final data is usually not received until 30 days after the laboratory has received the sample. Verification or validation is completed a short time following receipt of the final data package. You will be sent a copy of the verification or validation report, which you should review. If qualifiers have been attached to individual results they may affect the way that you use the data. If you have any question please contact your Analytical Services Project Lead, do not contact the laboratory directly.



			Property	Waste	Sample
RELEASE EVAL		ON FORM	A		
Page 1	of <u>2</u>				
Release Evaluation No. <u>0106113-00116-004</u> EXTENDED:	NO	EXPIRES:_	N/A	Charge No.:	N/A
PART I ACKNOWLEDGEMENT		SENDER/CU	JSTODIAN		
Description of Property/Waste/Sample To Be Released/Transf Sample numbers are as follows: T886B-06072001-315-108, T886B-06072001-315-111, T886B-06072001-315-112, T886B-06072001-315-116.	B-06072	001-315-109,	Г886В-06072	2001-315-110, T	886B-
Current Location: T117A					
Destination: Reservoir Environmental Services, 1827 Grant St., I	Denver, C	CO 80203	-		
New Recipient/Custodian: Same as above					
History/Process Knowledge: These samples came from an area and Historical Site Assessments for T886B were reviewed by the determined to not be a radiological concern. The indicated facility being sent for asbestos analysis.	Characte	rization Radiolo	ogical Engine	er (Jay Britten,	X3050) and 🛮
1) By signing below, I certify information provided in Part I of thi 2) By signing below, I agree to comply with the specific requirem					
Sender/Custodian: David Babbs David Babbs Emp. No	71 ·	D a	nte: <u>6/n/0</u>	<i>j</i> Ext: 47	17
PART II			RADIOLO	GICAL ENGIN	EERING
SPECIFIC REQUIREMENTS AND/OR COMMENTS:					
The samples specified above have been reviewed by Radiological radiological concerns. The indicated areas have never been posted ARE REQUIRED prior to transfer to the receiving laboratory.					
Custodian: Ensure only indicated samples are delivered to the ne	w custod:	ian for asbestos	s analysis.		
Custodian: Retain a copy of all documents required by this release evaluation. The sender/custodian will be responsible for ensuring a copy of this release evaluation is available for auditing/due diligence purposes.					
Radiological Engineer: Process release evaluation to indicate an required for the disposition of the affected items.	unrestri	cted free-releas	e. Sign all a _l	ppropriate docu	mentation
Evaluated: Jay M. Britten / Radiological Engineer Emp. N	Vo:	D	ate: <u>b(11/b</u>	Ext: 30	50
APPROVAL FOR TR	ANSFEF	R/SHIPMENT			
Approved: Jay M. Britten / Longineer Emp. N	No: _	_D	ate: 6///	Ext: 30)50

PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #:	0106113-00116-004		Page 2 of 2

Release Evaluation for Waste:

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

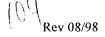
The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page __ of __, initials of Radiological Engineer signing approval for transfer/shipment and date.



RFP F 010202 (02/01) Formerly RF-3791.32

Rocky Flats Environmental Technology Site

10808 Hwy 93 Golden, CO 80403-8200

Rield Duta Sheet

PRE# Safety and Industrial Hygiene Chain of Custody Record and Analysis Request

LAB NUMBER Time / Date Time / Date Unbroken Condition of Seal いるのかけ ð REMARKS Conference Kony Mer Page Received by Received by outule TeleCon ☐ Broken Seal # (Release #) must bezelvant and and about - Tale Cor netherest NEW Hallwow Koor Signature: Firt Car Hali shitzerete Sylve アダメ White - Return to Originator Yellow - Lab Copy Pink - Sample Custodian Gold - Originator Date: Relinquished by Relinquished by Dros Cilia TIR ğ. Industrial Hygiene Sample Dar Calinic Sheet Vin PERSONAL AREA BULK Asbestos Samples Analysis Request Bldg/Ext: Rush MEDIA Time / Date Time / Date 24 Rush Standard Service Sample Time Volume Liters Received by Received by ANALYZE FOR Sel. Report and Billing Instruction 886B-06072001-315- 56108 886c-06072001-315-103 100 0 2 611 112 1866C-06072001-315-102 511 100 111 [BBEC - 06072001-315-101 Bidg/Y/M/D/P#/S# Relinquished by Relinquished by Name of Originator: Sample Number Report To: Verbal To: Fax To:

Err F 010202 (02/01) (Med. to Formerly RF-3791.32

Rocky Flats Environmental Technology Site

10808 Hwy 93 Golden, CO 80403-8200

Safety and Industrial Hygiene Chain of Custody Record and Analysis Request

PRE

Field who sheet

LAB NUMBER Time / Date Time / Date Unbroken Condition of Seal 220 Fr ğ REMARKS Page Received by Received by Outule Tele Com Broken Seal # (Release #) & allina するかり adhung FAX KOBIN Comments: Signature: White - Return to Originator Yellow - Lab Copy Pink - Sample Custodian Gold - Originator Very Lan board and Date: Jan. Relinquished by Relinquished by Industrial Hygiene Sample 200 Celling PERSONAL AREA BULK · Asbestos Samples **Analysis Request** Bldg/Ext: Rush MEDIA 107/ Time / Date Time / Date 24 Rush Sample Time Volume Liters Received by Received by ANALYZE FOR CE. Report and Billing Instruction 886B-06072001-315- 30108 8865-06072001-315-103 011 401 104 966C-06072001-315-102 717 5 105 E 15 1866 - 06072001-315-101 Bidg/Y/M/D/P#/S# Sample Number Relinquished by Name of Originator: Relinquished by Report To: Verbal To: Fax To:

10%

T886 B. Leving the Line Lawboard.
T886 C. Law Market Comment of the Comment of th

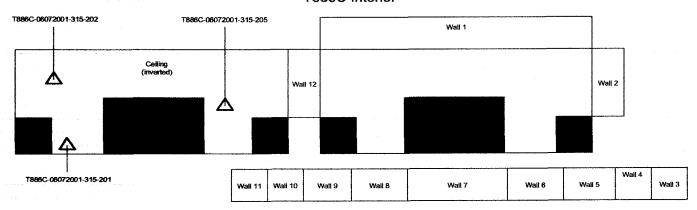
PRE-DEMOLITION SURVEY

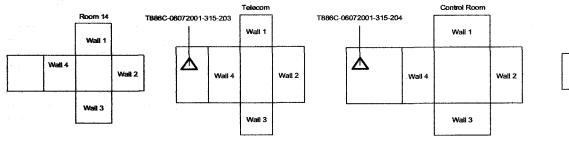
Survey Unit: GR8-B-002 Classification: 3

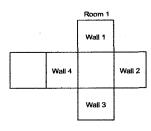
Survey Area: B Survey Unit: GR8-B-002 Class Building: T886C Survey Unit Description: Interior & Exterior of T886C Total Area: 1072 sq. m. Total Flo

Total Floor Area: 164 sq. m.

T886C Interior

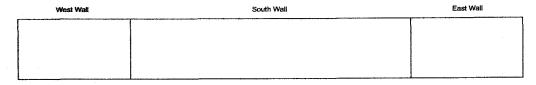






T886C Exterior

Roof



North Wall

SURVEY MAP LEGEND Asbestos Samole Location	Neither the United States Government nor Kaser Hill Co., nor DynCerp IdeET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assume	Į.	♦	0	FEET	30	U.S. Departm Rocky Flats Environm
Beryllinn Sample Location Lead Sample Location	asy legal liability or responsibility for the accuracy, completen or usefulness of any information, apparatin, product, or proces- disclosed, or represents that its use would not infringe privately owned rights.	n/a	Ц				Prepared by: GIS Dept. 3 DynCorp
RCRA/CERCLA Sample Location	Open/Inaccessible Area			0	METERS	10	THE ARY OF TECHR
PCB Sample Location	Area in Another Survey Unit			1 inc	h = 24 feet 1 grid sq. ==	1 sq. m.	MAP ID: 1y2001/01-0555
·							

ment of Energy mental Technology Site

GR8-B-002

PAGE 1 OF 1

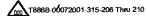
PRE-DEMOLITION SURVEY

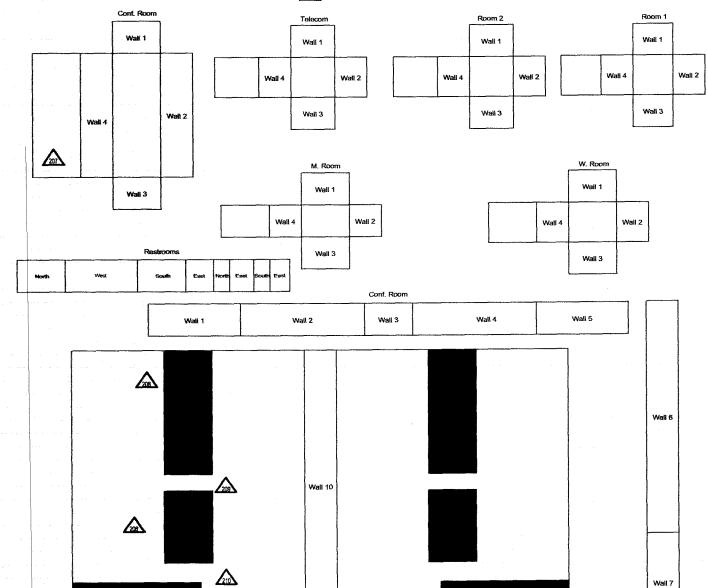
Survey Area: A Survey Unit: GR8-A-001 Classi Building: T886B Survey Unit Description: Interior & Exterior of T886B Survey Unit: GR8-A-001 Classification: 3

Total Area: 1928 sq. m.

Total Floor Area: 366 sq. m.

T886B Interior





e e le esta de <u>la companya de la comp</u>			
SURVEY MAP LEGEND	Meither the United States Government nor Kaiser Hill Co., nor DynCoty IdET, nor any agency thereof, nor any of their employees, makes any warrasty, express or implied, or assume	0 FEET 30	U.S. Department of Energy Rocky Flats Environmental Technology Site
Asbestos Sample Location Berytlium Sample Location	empinyees, makes any warrany, experies or mapues, or assume say legal fashibity or responsability for the accuracy, completents, or usefulness of any information, apparatus, product, or process fixeloosed, or represents that its use would not infining providely owned rights.		Prepared by: GIS Dept. 363-966-770 Prepared for: DynCorp
# Lead Sample Location # RCRA/CERCLA Sample Location	Open/inaccessible Area	0 METERS 10	THE ART OF TECHNOLOGY KAISER HEE
# PCB Sample Location	Area in Another Survey Unit	1 inch = 24 feet $1 grid sq. = 1 sq. m.$	MAP ID: fv2001/01-0555 May 9, 2001

Wall 9

GR8-A-001

PAGE 1 OF 21

Wall 8



Johns Manville Corporation 10100 West Ute Avenue (80127) P.O. Box 625005 Littleton, CO 80162-5005 Tel: (303) 978-3724

COVER PAGE

June 15, 2001

Shelly Johnsen

Rocky Flats Environmental Technology Site

P.O. Box 464, Bldg. 881

Golden, CO 80402-0464

Dear Ms. Johnsen:

Laboratory Report ID: 01061212

Laboratory Name:

Johns Manville IH Lab

Subcontract Number: KH800188

RIN:

01D0941 **David Babbs**

Requestor:

EED60122

P.O./Charge Code:

The Johns Manville Industrial Hygiene Laboratory has performed the following analytical testing services as requested. The results were calculated based upon the information supplied on the submission form. All laboratory data have been filed and are available upon request. The Johns Manville Laboratory is accredited by the American Industrial Hygiene association (AIHA) in the industrial hygiene program (Certificate #056), and participates in the AIHA ELPAT program.

If you have any questions, please call (303) 978-2584.

I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the RFETS specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Sincerely,

Scott Steiner Industrial Hygiene Project Manager June 15, 2001

June 15, 2001

Laboratory Report ID:

01061212

Laboratory Name:

Johns Manville IH Lab

Subcontract Number:

KH800188

RIN:

01D0941

Requestor:

David Babbs

P.O./Charge Code:

EED60122

Scope of Work:

Bottle Number(s)	Customer Number(s)	Laboratory ID Number(s)	Line Item Code	Sample Matrix	Instrument Run
01D0941-001.001	T886C06072001315-201	01061212-001	NR01A001	WIPE	QU010614-C
01D0941-002.001	T886C06072001315-202	01061212-002	NR01A001	WIPE	QU010614-C
01D0941-003.001	T886C06072001315-203	01061212-003	NR01A001	WIPE	QU010614-C
01D0941-004.001	T886C06072001315-204	01061212-004	NR01A001	WIPE	QU010614-C
01D0941-005.001	T886C06072001315-205	01061212-005	NR01A001	WIPE	QU010614-C
01D0941-006.001	T886B06072001315-206	01061212-006	NR01A001	WIPE	QU010614-C
01D0941-007.001	Т886В06072001315-207	01061212-007	NR01A001	WIPE	QU010614-C
01D0941-008.001	T886B06072001315-208	01061212-008	NR01A001	WIPE	QU010614-C
01D0941-009.001	T886B06072001315-209	01061212-009	NR01A001	WIPE	QU010614-C
01D0941-010.001	T886B06072001315-210	01061212-010	NR01A001	WIPE	QU010614-C

01D0941#001	Page 1 of 2						INE	Preservative; Packing	N/A None	N/A None	N/A None	N/A None	N/A None	N/A None	N/A None	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
8T.Dw: 6/2.	10//01		/Charge Code	Temp.	ir Bill No.	-001	ROUTINE	Sis	lysis) [Routine]	lysis) [Routine]	lysis) [Routine]	lysis) [Routine]	lysis) [Routine]	lysis) [Routine]	lysis) [Routine]	Received By:	Received By.	Received By:	Received By:	Date
F CUSTODY/SAMPLE ANALYSIS REQUEST Due: 6/		Telephone No. 6401	Purchase Order/Charge Code EED60122	Ice Chest No.	Bill of Lading/Air Bill No. N/A	PRE 010611-00116-001	SPECIAL INSTRUCTIONS Hold Time	Sample Analysis	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	DateTime	Date/Time	Date/Time	Date/Time	By
MPLE ANA							SCREENING SPECIA REQUIRED	Container (size/type/quantity)	 	1-FILTER / N/A NR01A0	 	 	 	 	1-FILTER / N/A NR01A0	Relinquished By:	Relinquished By:	Relinquished By:	Relinquished By:	Disposed By
CUSTODY/SA		equester EN SHELL)	Sampling Origin T886 C/ T886 B	ίο.	Method of Shipment HAND DELIVERY	Related COC (if any)	<u> </u>	Location Co	T886 C 1-FILT	T886 C 1-FILT	T886 C 1-FILT	T886 C 1-FILT	T886 C 1-FILT	T886 B 1-FILT	T886 B 1-FILT	Date/Time // 208	J	Date/Time	Date/Time	used in analytical process)
CHAIN OF		(time/date) Contact/R		Logbook N/A	Method of HAND	Related C	R Part 136.3 Table II? YES or NO	Time	7:00 AM	7:00 AM	7 7:00 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM	168		d By:	ત્ર By:	o customer, disposed of per lab procedure, used in analytical process)
							R.Part 136.3	Date	06/07/	06/07/ 2001	06/07/	06/07/ 2001	06/07/	2001	2001	ne Received By	ne Acceived By	nc Received By	ne Received By:	o customer, di
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	01D0941#001	2 of 2		Preservative; Packing	N/A None	N/A None	N/A None	\	\						Date/Time	Date/Time			
	co.c. # 01D	Page]]												
	।०६१२१३			sis	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]	NR01A001 (Beryllium Filter Analysis) [Routine]		\					The second se	Received By:	Received Ru			
	eQUEST		ίο.	Sample Analysis	n Filter Analy	m Filter Analy	m Filter Analy			-			-		Date/Time	Date/Time			
	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		Telephone No. 6401		001 (Berylliu	001 (Berylliu	001 (Berylliu					1							
	LE ANA			0			1					الايمار			Relinquished By:	Relinatiohed Ru-			
	//SAMP			Container (size/type/quantity	SEFILTER / N/A	1-FILTER / N/A /1	1-FILTER / N/A				()	190 200							
	STODY			-	T886 B	1886 B	T886 B					Mil			Date/Time 1908	1		:	
r	VOF CU		questor :N, SHELLY	Location						·		Ì			10/c1/n				
	CHAIL		Contact/Requestor JOHNSEN, SHELLY	O. Ale	7.00 AM	7:C0 AM	7:00 AM								4By:	l Rv.			
				. Date	06/07	06/07, 2001	2001								Receive	B-Chu			
				Matrix	FILTER	FILTER	FILTER								Date/Time	Date/Time			
	Advanced	٤		Customer Number	T886B060720013 15-208	T886B060720013 15-209	T886B060720013 15-210								6/4/2				
	Commodore Advanced	Sciences, inc.	RIN 01D0941	Bottle No.	01D0941 008.001	01D0941- 009.001	01D0941- 010.001								Relinquished By:	Salimmished Br			

NARRATIVE

The laboratory did not encounter any problems or questions associated with the receipt of samples into the laboratory. All samples identified on the Chain-of-Custody (COC) form were received and accepted in good condition with tamper-resistant seals intact. (1.d, 4.b, 4.e)

Whatman 4 or Whatman 41 swipe samples were submitted in this project and analyzed for the identification and quantitation of beryllium in accordance with Line Item Code (LIC), NR01A001. The methodology does not define any required specific holding times for the compound on the sampling media. Results of the sample analyses were generated and reported by the specified turn-around time (TAT), (4.f, 5.6, 5.f, 6.b.7)

The laboratory preparation of samples in this project was performed following laboratory Standard Operating Procedure (SOP), IH M-1.02, Revision N. Additional references to the preparation technique of this sample type are addressed in EPA Method, 3015A and CEM Application Procedure, MS-9. The samples were prepared using the CEM Microwave Sample Preparation System, Model MDS 2000. The instrumental sample analysis for these samples follows SOP, IH M-1.04, Revision N, which covers the analytical procedure outlined in OSHA method, ID-125G. Start-up and calibration of the Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) instrument are performed following manufacturer's instructions and are addressed in SOP, IH M-1.03, Revision N. (5.a)

Results of all calibration verifications (initial and continuing), method blanks (calibration and matrix), Laboratory Control Samples (LCSs), Laboratory Control Sample Duplicates (LCDs) and internal QA/QC program monitoring standards for this analytical batch are within acceptable limits as specified in Statement of Work (SOW) modules, GR01-B.3 and NR01-A. (5.c, 5.d.2, 5.d.3, 6.b.2-6)

The internal quality control procedures for statistical monitoring of analytical data to ensure the production of quality results with continuing high validity are addressed in the JMTC IH Laboratory Quality Assurance Manual, Section 10.0. Results of all method-specific QC assessments for this analytical batch are within acceptable limits in accordance with SOW modules, GR01-B.3 and NR01-A. (5.c, 6.b.1)

The Instrument Detection Limit (IDL) has been determined to be 0.00028 µg/ml using the ICP-AES instrument, Perkin Elmer - Optima model 3000DV. Method Detection Limit (MDL) determinations are performed in accordance with the EPA Method contained in 40 CFR Part 136, Appendix B. The MDL for beryllium on the Whatman swipe matrix by ICP-AES has been determined to be 0.012 µg/swipe. These values meet the required detection limits for SOW module, NR01-A. (5.d.1) The sample batch did not require any sample re-analyses due to dilutions or any anomalies. (5.d) The qualifiers used for the results page are "U" for non-detect and "J" for levels greater than the MDL, but less than the Reporting Limit.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate N. 056) and continues to rate proficient within the Proficiency Analytical Testing (PAT) program. This program is designed for laboratories involved in analyzing samples taken in the workplace environment. The JMTC IH Analytical Laboratory is also accredited in the Environmental Lead Laboratory Accreditation Program (ELLAP), which is recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP). This program accredits and monitors performance of laboratories testing for lead in environmental samples such as paint, soil, dust wipes and air. (5.a)

June 15, 2001

Laboratory Report ID 01061212

Laboratory Name: Johns Manville IH Lab Subcontract Number: KH800188

01D0941 RIN:

Requestor:

David Babbs EED60122 P.O./Charge Code:

QUICK RESULTS SUMMARY

Customer	Laboratory	Requested	Reporting	0	CONCENTRATION		È	Air Vol or	Air Vol or Air
Number	ID Number	Analysis	Limit	Back Section	Back Section Front Section	Total	g	Time	Concentration
T886C06072001315-201 01061212-001 Beryllium	01061212-001	Beryllium	0.1 µg			<0.1 µg	Э		
T886C06072001315-202 01061212-002 Beryllium	01061212-002	Beryllium	0.1 μg			<0.1 µg			
T886C06072001315-203 01061212-003 Beryllium	01061212-003	Beryllium	0.1 µg			<0.1 µg	3		
T886C06072001315-204 01061212-004 Beryllium	01061212-004	Beryllium	0.1 нд			<0.1 µg	3		
T886C06072001315-205 01061212-005 Beryllium	01061212-005	Beryllium	0.1 ид			<0.1 µg	3		
T886B06072001315-206 01061212-006 Beryllium	01061212-006	Beryllium	0.1 µg			<0.1 µg	3		
T886B06072001315-207 01061212-007 Beryllium	01061212-007	Beryllium	0.1 µg			<0.1 ug	3		
T886B06072001315-208 01061212-008 Beryllium	01061212-008	Beryllium	0.1 µg			<0.1 µg	4		
T886B06072001315-209 01061212-009 Beryllium	01061212-009	Beryllium	0.1 µg			<0.1 µg	3		
T886B06072001315-210 01061212-010 Beryllium	01061212-010	Beryllium	0.1 μg			<0.1 µg			

June 15, 2001

QC RESULTS SUMMARY

Laboratory Report 1D 01061212

Laboratory Name: Johns Manville IH Lab Subcontract Number: KH800188

01D0941 RIN:

David Babbs EED60122

Requestor: P.O./Charge Code:

QC Parameter	QC Item Type	Compound	Expected	Actual	Percent	QC Sample 1D	Date	Instrument
			Recovery	Recovery	Recovery		Analyzed	Run
Preparation Blank	PB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/15/01	QU010614-C
Matrix Blank	MB1	Beryllium	$< 0.1 \mu \mathrm{g}$	<0.1 µg	N/A		6/15/01	QU010614-C
Matrix Blank Spike	MS1	Beryllium	5.0 µg	5.24 µg	104.8		6/15/01	QU010614-C
Laboratory Control Sample	127	Beryllium	8.0 ид	7.91 µg	6.86	QC01061251	6/15/01	QU010614-C
Laboratory Control Duplicate	LCIa	Beryllium	8.0 µg	7.90 µg	8.86	QC01061251	6/15/01	QU010614-C
Preparation Blank	PB2	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/15/01	QU010614-C
Laboratory Control Sample	LC2	Beryllium	12.0 µg	12.1 µg	100.8	QC01061252	6/15/01	QU010614-C
Laboratory Control Duplicate	LC2a	Beryllium	12.0 ив	12.1 ив	100.8	QC01061252	6/15/01	QU010614-C

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464 RIN # O/N O942 Safety and Hygiene Chain of Custody Record and Analysis Request

o V Number Lab Fime/Date Time/Date Time/Date Time/Date Page ☐ Unbroken Samales Bldg/Ext:*T117A / 4 7 1 7*- Date: 6 */ 8 / 0 1* REMARKS 402 3024 Received by Received by Received by Received by Broken Condition of Seal: 」 え Seal# (Release #) Signature: ____Comments: fout bound from Duce Personal Area Relinquished by Relinquished by Relinquished by Relinquished by Industrial Hygiene Sample MEDIA Other Asbestos Samples 45 Other Analysis Request Rush Rush SAMPLE TIME/ せる Z4 Rush ime/Date Time/Date Time/Date Time/Date Standard Service VOLUME 1H55 Standard liters Service X Ž White - Return to Originator Title: ANALYZE FOR P.O.#/Release: <u>EED60123</u> Received by Received by Received by Received by Keening 、ななもの Colora Name of Originator: DAVID DATES Report and Billing Instruction 386 C-0607201-315-107 1886B-06072001-315-108 886C-06072001-315-106 1886B-06072001-315-113 Teek B-06072001-315-116 1886B-06072001-315-115 BB6B-06072001-315-114 7886C-06072001-315-102 TBB6 C-06072001-315-103 7886C-06072001-315-104 -886C-06072001-315-105 TBBEB-06072001-315-112 7886B-06072001-315-111 Report To: Verbal To: 886C-06072001-315-101 Fax To: 7866B-0x072001-315-7886B-06072001-315-Bill To: Relineyished by Relinquished by Relinquished by Relinquished by SAMPLE NUMBER Bldg/Y/M/D/P#/S# 15 de 355 Kaiser-Hill DynCorp SSOC RMRS WSI

RFP F 3791.32 (7/95) Formerly:RF:47530

Green - Sample Custodian Blue - Originator Yellow - Lab Copy

Rocky Flats Environmental Technology Site

RFP F 010202 (02/01) Formerly RF-3791.32

Safety and Industrial Hygiene Chain of Custody Record and Analysis Request

10808 Hwy 93 Golden, CO 80403-8200

RIN#

PRE#

LAB NUMBER feware decour Time / Date Time / Date Unbroken Howevirte surface of HYAC differen HAK Room Comes Condition of Seal Tele Com ō REMARKS Page Received by Received by Broken Seal # (Release #) イズグラス Comments: Signature: 1226 Date: Relinquished by Relinquished by ğ. Industrial Hygiene Sample PERSONAL AREA BULK Asbestos Samples \$ Analysis Request Bldg/Ext: Rush MEDIA Time / Date Time / Date 24 Rush Sample Time Volume Liters Received by Received by ANALYZE FOR De Report and Billing Instruction 8866-06072001-315-206 207 208 209 203 205 2.10 18866-0607201-315-201 Bldg/Y/M/D/P#/S# Relinquished by Relinquished by Sample Number Name of Originator: Tww//www Report To: Verbal To: Fax To:

White - Return to Originator Yellow - Lab Copy Pink - Sample Custodian Gold - Originator

RFP F 3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464 Analysis Request Safety and Hygiene Chain of Custody Record and Analysis Request

Name of Originator: Assss	Arsas Title:	2485	Bldg/Ext: 7/174 /421 チ	7/7 Date: $6/8/0$ Page	/ of /
SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME SAMPLE Iiters TIME/	E MEDIA A Area	REMARKS L	Lab Number
7886C-06072001-315-201	Be	李	NA B	*	
7886C-66072001-315-202		-	V	1201A001	
7886 C-06072001-315-203					
TBB6C-06072001-315-204					
TBB6C-06072001-315-205					
7886B-06072001-315-206					
7886 B-06072001-315-207					
286B-06072021-315-208	~				
7886B-06072001-315-209					
7886B-66072001-315-210	-}	1	1		
Relinquished by	Received by	Time/Date/	Relinquished by	Received by Time/Date	te
Relinquished by	Received by	Time/Date	Relinquished by	Received by Time/Date	te
Relinquished by	Received by	Time/Date	Relinquished by	Received by Time/Date	te
Relinquished by	Received by	Time/Date	Relinquished by	Received by Time/Date	te
Report and Billing Instruction	struction	Analys	Analysis Request	Seal# (Release #)	
Kaiser-Hill X Verbal To:	J. GASBS	Industrial P	Industrial Hygiene Sample	Condition of Seal: ☐ Broken ☐ Unbroken	_
ם מ	25 X 7	ard :e	Rush Other	Signature:	
WSI D.O.#/Release:	1Se: EED 60122				
Lab:	JANAN	Service Rush	Z Omer		
White	White - Return to Originator	Yellow - Lab Copy	Green - Sample Custodian	n Blue - Originator	

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

RFP F 3791.32 (7/95) Formerly RF-47530

RIN# 0100941 Safety and Hygiene Chain of Custody Record and Analysis Request

o Jo Number Time/Date Time/Date Time/Date Time/Date ☐ Unbroken Page / Bldg/Ext: 71/74 /4217 Date: 6/8/01 REMARKS Received by Green - Sample Custodian Blue - Originator Received by Received by Received by Condition of Seal: Seal# (Release #) VKO 1 A 60 Signature:___Comments: Personal Area Relinquished by Relinquished by Relinquished by Relinquished by ⋖ Industrial Hygiene Sample Other Asbestos Samples MEDIA Other 至 Analysis Request 2 Rush Rush SAMPLE TIME/ 24 Rush / Lime/Date/ Time/Date Time/Date Time/Date Standard Service Standard Service 21485 VOLUME X liters \$ Title: EED 60122 ANALYZE FOR Received by Received by Received by Received by 、もなるなん MAN Be Name of Originator: Davis Brabs Report and Billing Instruction P.O.#/Release: 🗜 966 B-06072001-315-207 866 B-06072021-315- 208 BB(B. 06072001-315-209 7886B-06072001-215-206 7886C-06072001-35- 201 T886 C-66072001-315-202 -886 C-06072001-315-203 7886C-06072001-315-204 886B-66072001-315-210 886C-06072001-315-205 Report To: Verbal To: Fax To: Bill To: Relinquished by Relinquished by Relingurished by Relinquished by Lab: SAMPLE NUMBER BIdg/Y/M/D/P#/S# Kaiser-Hill DynCorp RMRS SSOC WSI

Yellow - Lab Copy White - Return to Originator Rocky Hats Environmental Technology Site

12002 Time / Date Time / Date LAB NUMBER Unbroken Condition of Seal MAC Afferen AAK Room Cares 2711119 ð CART REMARKS Page Received by Received by Seal # (Release #) PRE # RIN # light fixture -71.11/XX Comments: Signature: At Lixture outile White - Return to Originator Yellow - Lab Copy Pink - Sample Custodian Gold - Originator 11:06 Safety and Industrial Hygiene Chain of Custody Record and Analysis Request 10 south surjuce of abandoned Relinquished by Relinquished by Date: Industrial Hygiene Sample å Asbestos Samples PERSONAL AREA BULK 10808 Hwy 93 Golden, CO 80403-8200 Analysis Request Bldg/Ext: Time / Date 24 Rush Time / Date MEDIA Sample Time Volume Liters Received by Received by Title: ANALYZE For Report and Billing Instruction þ 8863-06072001-315-206 207 208 210 203 202 Relinquished by Relinquished by BIDGY/M/D/P#/S# Sample Number Name of Originator: Swy Hum RFP F 010202 (02/01) Formerly RF-3791.32 Report To: Verbal To: Fax To:

	-				190
	•		Property	Waste	Sample
RELEASE EVA	I IIATI	ION FOR	М		
Page :	_	IONFOR	. * 1		
Release Evaluation No. 010611-00116-001 EXTENDED:	NO	EXPIRES:_	N/A	Charge No.:	<u>N/A</u>
PARTÏ		SENDER/CU	JSTODIAN	ACKNOWLE	OGEMENT
Description of Property/Waste/Sample To Be Released/Transobtained for Be analysis in T886C. Sample #'s are as follows: T06072001-315-203, T886C-06072001-315-204, & T886C-06072001-315-204.	886C-060	72001-315-201			
Current Location: Building T117A		00 001/0 5	005		
Destination: John Mansville Technical Center, PO Box 625005 New Recipient/Custodian: Same as above	, Littleton	i, CO 80162-5	005		
History/Process Knowledge: Swipe samples came from the interior indicate this facility has never been posted as a CA/RBA. The facility has never been posted as a CA/RBA.					documents
1) By signing below, I certify information provided in Part I of t 2) By signing below, I agree to comply with the specific requires					
Sender/Custodian: David Babbs/ 2335 Emp	. No		Date: <u>6/4/</u>	/ <i>v'</i> / Ext: 4	717
PART II		RA	DIOLOGI	CAL ENGIN	NEERING
SPECIFIC REQUIREMENTS AND/OR COMME	ENTS:				
The samples specified above have been reviewed by R indicates that there are no radiological concerns. All WSRIC, verify no radiological concerns. As a result, prior to transfer to the receiving laboratory.	adiologi facility	documentati	on, includir	ig the associo	ated
Custodian: Ensure only indicated samples are deliver appropriate personnel for coordination of sample acc			*		is. Notify
This is an unrestricted release.					
Evaluated: Jay M. Britten / Jay Bullo Emp. Radiological Engineer	No: _	_ [Date: <u>6/11/</u>	0 Ext: 3	050
APPROVAL FOR T	RANSEE:	R/SHIPMENT			
	MINOI L		-		

Rev 08/98

@RAH

PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #:	010611-00116-001		Page 2 of 2
			0

Release Evaluation for Waste:

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page __ of __, initials of Radiological Engineer signing approval for transfer/shipment and date.

(23/123) Rev 08/98